

**REMOVAL SITE EVALUATION
FOR
LOEWENTHAL METALS SITE
CHICAGO, COOK COUNTY, ILLINOIS**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency Response Branch
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3507

Prepared by:

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February 4, 2013

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Date: February 4, 2013

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Date: February 4, 2013

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LIST OF ABBREVIATIONS AND ACRONYMS

ATSDR	Agency for Toxic Substances and Disease Registry
bgs	Below ground surface
CFR	<i>Code of Federal Regulations</i>
EPA	Environmental Protection Agency
FIELDS	Field Environmental Decision Support
FSP	Field Sampling Plan
IEPA	Illinois Environmental Protection Agency
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OSC	On-Scene Coordinator
PCB	Polychlorinated biphenyl
PID	Photoionization detector
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
RML	Removal Management Level
START	Superfund Technical Assessment and Response Team
SU	Standard Unit
SVOC	Semivolatile organic compound
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
URSL	Unoccupied Residential Soil Level
VOC	Volatile organic compound
VSP	Visual Sampling Plan
WESTON	Weston Solutions, Inc.
XRF	X-ray fluorescence

1. INTRODUCTION

The United States Environmental Protection Agency (EPA) tasked the Weston Solutions, Inc. (WESTON[®]), Superfund Technical Assessment and Response Team (START) to assist EPA On-Scene Coordinator (OSC) Steve Faryan in performing a removal site evaluation at the Loewenthal Metals site in Chicago, Cook County, Illinois (the Site) (**Figure 1**). Specifically, under Technical Direction Document No. S05-0001-1201-003, the EPA requested that WESTON START document and photograph current Site conditions, advance soil borings, screen surface soil using an x-ray fluorescence (XRF) analyzer, collect soil and concrete samples, and evaluate the potential for imminent and substantial threats to the public health or welfare of the United States or the environment posed by Site-related conditions. On November 27, 2012, WESTON START member Jonathan Colomb and the EPA Field Environmental Decision Support (FIELDS) Team conducted the site assessment under the direction of EPA OSC Faryan.

This site assessment report is organized into the following sections:

- **Section 1, Introduction** – Briefly describes the site assessment and its scope
- **Section 2, Site Background** – Describes the Site and summarizes its known history
- **Section 3, Site Assessment Activities** – Discusses observations made and sampling methods and procedures used during the site assessment
- **Section 4, Analytical Results** – Discusses laboratory analytical results for samples collected during the site assessment
- **Section 5, Threats to Human Health and the Environment** – Identifies Site-related conditions that may warrant a removal action based on criteria established in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) under Title 40 of the *Code of Federal Regulations* (CFR), Part 300
- **Section 6, Conclusions** – Summarizes the site assessment findings and conclusions drawn based on the findings

2. SITE BACKGROUND

This section discusses the Site description and history.

2.1 SITE DESCRIPTION

The Site is located at 947 West Cullerton Street in Chicago, Cook County, Illinois (**Figure 1**). The Site is near the center of the Pilsen neighborhood, a primarily residential area. The Site's coordinates are 41°51'19" North latitude and 87°39'0.6" West longitude. The Site is bordered to the north by West Cullerton Street, with residential properties beyond; to the east by a recreational trail and South Sangamon Street, with railroad tracks and commercial properties beyond; and to the south and west by residential properties (**Figure 2**). The Site currently consists of an empty lot with a grass surface cover occupying approximately 0.42 acre. The southern portion of the Site is elevated approximately 4 to 5 feet above grade and contains evidence of a concrete foundation. This elevated area includes the remnants of an abandoned railroad spur that served a former smelting facility at the Site. The Site is unsecured.

Sensitive populations located within 1 mile of the Site include numerous residential properties, two elementary schools, one high school, and two churches.

According to the Cook County, Illinois Assessor's Office, the Site is zoned as Class 1-00 - Vacant Land (PIN 17-20-433-003-000).

2.2 SITE HISTORY

Based on historical aerial photographs, the Site contained a railroad spur, and a smelting facility operated by the Loewenthal Metals Corporation during the 1940s. In the *1940 Standard Metal Directory*, Loewenthal Metals Corporation is listed as an aluminum, antimonial lead, and zinc smelter as well as a Babbitt metal and solders manufacturer and an ingot metal and scrap metal dealer. The company also is listed in the *1948-49 Standard Metal Directory* as an aluminum and battery lead smelter, scrap iron and metal dealer, and importer and exporter of scrap metal. The exact date when the smelter ceased operations is unknown. Additional information regarding the demolition of the smelting facility is not available.

The Site is one of 464 potential unknown battery lead, babbitt metals, and solder smelters identified by William P. Eckel in an April 2001 article "Discovering Unrecognized Lead-

Smelting Sites by Historical Methods" published in the *American Journal of Public Health* (American Journal of Public Health, 91(4):625-7, 2001). The smelters were identified based on historical literature searches for potential smelters and cross-checking of the findings against EPA and state environmental databases.

On July 15, 2006, the Illinois Environmental Protection Agency (IEPA) conducted a Pre-CERCLIS Screening Action to determine current Site conditions. During the Site reconnaissance, the IEPA observed that Site access was completely unrestricted. The IEPA also observed evidence of transients living on the Site property. IEPA screened surface soil at 12 locations using an XRF analyzer. Readings revealed arsenic, copper, manganese, and zinc at levels exceeding three times background levels. Lead readings exceeded the EPA Removal Management Level (RML) for residential soil of 400 parts per million (ppm).

IEPA requested that EPA consider a time critical removal action on December 15, 2011, in a letter to Mike Ribordy, Chief, Emergency Response Branch 2 from Bruce Everett, IEPA, Office of Site Evaluation.

EPA formed an enforcement team and sought to locate the owner, James Connell, to obtain consensual access to the site to collect samples. An access letter and consent form was sent to Mr. Connell's address of record in Chicago. Mr. Connell did not respond to the letter.

EPA referred the site to the U.S. Department of Justice to obtain an access warrant. On November 16, 2012, a U.S. Magistrate Judge signed the Warrant for access to enter the site, inspect, and collect samples.

EPA initiated the locate of underground utilities and finalization of the field sampling plan (FSP) detailing sample collection activities planned at the Site.

3. SITE ASSESSMENT ACTIVITIES

On November 27, 2012, EPA OSC Faryan, the EPA FIELDS Team, and WESTON START personnel arrived at the Site to conduct the site assessment. The objectives of the site assessment included the following:

- Identify the constituents and characteristic properties of materials present in soil at the Site
- Determine if a removal action is warranted at the Site based on NCP criteria, and if so, determine if the response should be classified as an emergency, time-critical, or non-time-critical response
- Rapidly assess and evaluate the urgency, magnitude, extent, and effects of a release or threatened release of hazardous substances, pollutants, or contaminants identified at the Site and their potential effects on the public health or welfare of the United States or the environment
- Supply the Agency for Toxic Substances and Disease Registry (ATSDR) or others with information about the nature and magnitude of any health threats associated with the Site
- Support subsequent public health advisories
- Identify a potential response to eliminate, reduce, or control Site-related risks to the public health or welfare of the United States or the environment and to support an Action Memorandum documenting the identified removal approach

Appendix A provides a photographic log of Site conditions and activities conducted during the site assessment. The Site reconnaissance and field screening and sampling activities are discussed below.

3.1 SITE RECONNAISSANCE

The EPA and WESTON START conducted a Site reconnaissance after an initial health and safety briefing. The Site reconnaissance was performed in Level D personal protective equipment in accordance with the approved site-specific Health and Safety Plan. Air monitoring was conducted in the breathing zone throughout the Site reconnaissance using a MultiRAE five-gas meter and a MicroR gamma radiation detector. The MultiRAE five-gas meter includes a photoionization detector (PID) that measures organic vapors, a carbon monoxide sensor, a

hydrogen sulfide sensor, a lower explosive limit meter, and an oxygen meter. No readings exceeded background levels during the Site reconnaissance.

Observations made during the Site reconnaissance are summarized below.

The Site is a grassed, empty lot that was not secured during the site assessment. The north end of the Site is bordered by a developed sidewalk. The east end of the Site is bordered by a recreational trail. The southern portion of the Site contains several large trees. The southern portion of the Site is elevated approximately 4 to 5 feet above grade and contains evidence of a concrete foundation. This elevated area includes the remnants of an abandoned railroad spur that served a former smelting facility at the Site. Based on visual observations, portions of the concrete foundation appeared to contain bits of metal slag. Two empty, 55-gallon polyethylene drums were also observed on site. The drums were found to be used for water for the gardening club that raised gardens south of the site.

No storm or sanitary sewers or drainage ditches were observed on or around the Site, although sanitary sewers are located approximately 1,000 feet west of the Site. Animal tracks were observed in soil at the Site. A community garden is located south of the Site.

Evidence of transient housing was noted on the adjacent railroad property. Numerous young children were observed walking on the developed sidewalk that borders the north side of the Site to the nearby elementary school. Many residents and pets were observed using the recreational trail that borders the east side of the Site.

The local community group placed warning signs and caution tape around the border of the site warning residents of the potential hazards associated with the site.

3.2 FIELD SCREENING AND SAMPLING ACTIVITIES

The EPA FIELDS Team and WESTON START conducted XRF field screening and soil sampling according to the visual sampling plan (VSP) grid detailed in the EPA-approved (FSP for the Site. The VSP grid was designed with a total of 20 sampling locations on a 95 percent confidence of detecting a hotspot with a radius of approximately 20 feet. The XRF screening

and sampling approach met the sampling density described in the Superfund Lead-Contaminated Residential Sites Handbook (August 2003). The concrete foundation at the southern end of the Site and the recreational trail made several screening and sampling locations inaccessible. The Site does not have any drip zones from surrounding buildings as the gutter down spouts all drain to the combined sewer. In total, 22 samples (19 investigative and 3 duplicate samples) were collected for laboratory analysis. **Figure 3** shows the sampling locations.

At each screening and sampling location, EPA used a direct-push, Geoprobe® track-mounted rig to advance 19 soil borings (LM-SB01 through LM-SB03, LM-SB05, LM-SB07, LM-SB08, LM-SB10, LM-SB11, LM-SB13 through LM-SB17, LM-SB19 through LM-SB23, and LM-SB16D) to 3 feet below ground surface (bgs) or refusal. Soil was collected using a dual-core sampler. A qualified WESTON geologist inspected each soil core and recorded observations in a soil boring log using the Unified Soil Classification System. **Appendix B** provides a copy of the field boring logs. The boring log provides a detailed record of the lithology and potential contaminant characteristics at each boring, including descriptions of any fill materials, odors, discoloration, and staining suggesting the presence of contamination. In accordance with the FSP, each 2-foot depth interval was field screened for volatile organic compounds (VOC) by placing a section of the soil into a plastic, Ziploc®-style bag, allowing contents to volatilize, and then screening the headspace for VOCs using a MultiRAE PID. The field screening VOC results also were recorded in the field boring logs.

3.2.1 XRF Field Screening

At each of the 19 boring locations, the EPA FIELDS Team screened surface soil for metals (arsenic and lead) using XRF analyzers. Two XRF analyzers were used: an Innov-X Alpha 4000 and an Innov-X Delta. The results from both units were averaged to provide results that are as accurate as possible.

Soil core samples from the Geoprobe were placed in Ziploc-style bags and the soil was homogenized prior to sampling with the XRF analyzers. The samples were screened with both XRF analyzers to compare screening results and compare these results with the final analytical data.

A total of 69 soil samples were collected from the 19 boring locations and screened with the XRF analyzers. **Table 1** summarizes the XRF screening results. XRF screening results for arsenic were compared to the EPA RML for residential soil of 39 milligrams per kilogram (mg/kg) and to the EPA RML for industrial soil of 160 mg/kg. XRF screening results for lead were compared to the EPA RML for residential soil of 400 mg/kg, to the EPA RML for industrial soil of 800 mg/kg, and to the 40 CFR Part 745 Unoccupied Residential Soil Level (URSL) of 1,200 mg/kg.

Arsenic was detected in 53 of the 69 intervals, and readings exceeded the EPA RML for residential soil in 38 intervals, and exceeded the EPA RML for industrial soil in 10 intervals. Arsenic concentrations ranged from 5 to 1,087.5 ppm, and arsenic was detected in all the soil borings at the Site, indicating an even distribution throughout the Site. The highest arsenic readings exceeding the EPA RMLs were detected from 12 to 24 and 24 to 36 inches bgs.

Lead was detected in all 69 intervals, and readings exceeded the EPA RML for residential soil in 59 intervals, exceeded the EPA RML for industrial soil in 44 intervals, and exceeded the 40 CFR Part 745 URSI in 36 intervals. Lead concentrations ranged from 11.3 to 26,794 ppm, and lead was detected in all the soil borings at the Site, indicating an even distribution throughout the Site. The highest lead readings exceeding the screening levels were detected from 12 to 24 and 24 to 36 inches bgs. Surface XRF readings (0 to 3 and 0 to 6 inches bgs) for lead ranged from 89.5 to 5,512 ppm and readings exceeded the CFR Part 745 URSI in three of the 18 surface intervals. .

3.2.2 Soil and Concrete Sampling

Soil samples were collected from approximately 30 percent of the screened intervals based on a bias to provide a range of metals concentrations. A total of 22 soil samples (19 investigative and 3 duplicate samples) were submitted under chain of custody to a WESTON-procured fixed laboratory, STAT Analysis Corporation in Chicago, Illinois, for analysis.

One concrete sample, LM-Concrete-112712, was collected from a portion of the concrete foundation that appeared to be composed of smelting slag. XRF results of the concrete had indicated metal concentrations in the percent concentrations indicating the material was a smelting slag which had possibly been mixed in with the concrete pad and foundation.

4. ANALYTICAL RESULTS

Using a biased sample collection methodology, surface and subsurface soil samples were collected from a range of depth intervals from 11 of the 19 soil boring locations. The samples were collected to determine if the Site poses imminent and substantial threats to the public health or welfare of the United States or the environment from the presence of potentially hazardous materials.

Soil samples were analyzed for pH and Resource Conservation and Recovery Act (RCRA) metals plus copper, manganese, and zinc. Additionally, soil samples LM-SB05-(6-16)-112712, LM-SB14-(24-32)-112712, and LM-SB16-(24-36)-112712 were analyzed for extended parameters, including TCLP metals, TCL pesticides, PCBs, TCL VOCs, and TCL SVOCs. The duplicate sample, LM-SB05-(6-16)-112712D, was analyzed for TCL VOCs only. The concrete sample, LM-Concrete-112712, was analyzed for pH and RCRA metals plus copper, manganese, and zinc.

The soil sample results for pH and TCLP metals results for the soil samples were compared to the hazardous waste criteria outlined in 40 CFR Part 261 Subpart C for corrosivity and toxicity. The soil sample results for RCRA metals, TCL pesticides, TCL VOCs, TCL SVOCs, and PCBs were compared to the EPA RMLs – both the residential and industrial criteria. In addition, total lead was also compared to 40 CFR Part 745 URSL. The concrete sampling results were not compared to any screening criteria. **Figure 3** shows the sampling locations. **Tables 2 and 3** summarize the soil sample results and **Table 4** summarizes the concrete sample results. **Figure 4** shows the sample analytical results exceeding the screening criteria. **Appendix C** provides the laboratory analytical report and the data validation report for the samples. The results for each sampled medium are summarized below.

4.1 SOIL SAMPLE ANALYTICAL RESULTS

Soil sample analytical results are summarized below.

4.1.1 pH

The pH results ranged from 6.1 to 8.6 standard units (SU) (see **Table 3**). According to 40 CFR Part 261.22, a pH value of greater than or equal to 12.5 SUs or less than or equal to 2 SUs exhibits the characteristic of corrosivity. The soil samples represent materials that do not meet the definition of hazardous waste for the characteristic of corrosivity.

4.1.2 RCRA Metals

RCRA metals (plus copper, manganese, and zinc) detected at concentrations exceeding the screening criteria are summarized below (see **Table 3** and **Figure 4**).

- Arsenic exceeded the EPA RML for residential soil of 39 mg/kg in the following samples: LM-SB10-(24-36)-112712 (40 mg/kg) and LM-SB16-(12-24)-112712D (46 mg/kg).
- Copper exceeded the EPA RML for residential soil of 9,400 mg/kg in the following samples: LM-SB05-(6-16)-112712 (12,000 mg/kg) and LM-SB16D-(12-24)-112712 (17,000 mg/kg).
- Lead exceeded only the EPA RML for residential soil of 400 mg/kg in sample LM-SB16-(0-6)-112712 (610 mg/kg).
- Lead exceeded the EPA RML for industrial soil of 800 mg/kg and the EPA RML for residential soil of 400 mg/kg in the following samples: LM-SB01-(0-10)-112712 (1,200 mg/kg), LM-SB05-(6-16)-112712 (1,100 mg/kg), LM-SB07-(12-24)-112712 (920 mg/kg), and LM-SB14-(6-12)-112712 (980 mg/kg).
- Lead exceeded the 40 CFR Part 745 URSL of 1,200 mg/kg, the EPA RML for industrial soil of 800 mg/kg and the EPA RML for residential soil of 400 mg/kg in the following samples: LM-SB03-(12-24)-112712 (23,000 mg/kg), LM-SB03-(24-36)-112712 (3,100 mg/kg), LM-SB07-(6-12)-112712 (2,200 mg/kg), LM-SB10-(24-36)-112712 (13,000 mg/kg), LM-SB10-(24-36)-112712D (3,400 mg/kg), LM-SB14-(12-24)-112712 (3,300 mg/kg), LM-SB14-(24-32)-112712 (9,700 mg/kg), LM-SB15-(12-24)-112712 (13,000 mg/kg), LM-SB16D-(12-24)-112712 (22,000 mg/kg), LM-SB16-(24-36)-112712 (7,400 mg/kg), LM-SB17-(12-24)-112712 (1,600 mg/kg), LM-SB23-(6-12)-112712 (5,700 mg/kg), LM-SB23-(12-24)-112712 (3,600 mg/kg), and LM-SB23-(12-24)-112712D (7,900 mg/kg).
- Mercury exceeded the EPA RML for residential soil of 30 mg/kg in sample LM-SB23-(12-24)-112712 (53 mg/kg).

4.1.3 TCLP Metals

TCLP lead was the only metal detected at concentrations exceeding the TCLP regulatory limits (see **Table 3** and **Figure 4**). TCLP lead exceeded the regulatory limit of 5 milligram per liter (mg/L) in samples LM-SB14-(24-32)-112712 (16 mg/L) and LM-SB16-(24-36)-112712 (76 mg/L). Therefore, according to 40 CFR 261.24, these samples represent a material that meets the definition of hazardous waste for the characteristic of toxicity.

4.1.4 TCL Pesticides

All pesticides concentrations were below the method detection limits (see **Table 2**).

4.1.5 PCBs

All PCB concentrations were below the method detection limits (see **Table 2**).

4.1.6 TCL VOCs

The following samples contained TCL VOCs (see **Table 2**):

- Sample LM-SB05-(6-16)-112712D: acetone
- Sample LM-SB14-(24-32)-112712: 1,1,1-trichloroethane

No results exceeded the screening criteria.

4.1.7 TCL SVOCs

TCL SVOCs detected at concentrations exceeding the screening criteria are summarized below (see **Table 2** and **Figure 4**).

- Benzo(a)anthracene exceeded the EPA RML for residential soil of 15 mg/kg in sample LM-SB14-(24-32)-112712 (64 mg/kg).
- Benzo(a)pyrene exceeded the EPA RML for residential soil of 1.5 mg/kg in the following samples: LM-SB05-(6-16)-112712 (20 mg/kg) and LM-SB16-(24-36)-112712 (12 mg/kg); and exceeded the EPA RML for industrial soil of 21 mg/kg in the sample LM-SB14-(24-32)-112712 (56 mg/kg).
- Benzo(b)fluoranthene exceeded the EPA RML for residential soil of 15 mg/kg in sample LM-SB14-(24-32)-112712 (49 mg/kg).

- Dibenzo(a,h)anthracene exceeded the EPA RML for residential soil of 1.5 mg/kg in the following samples: LM-SB05-(6-16)-112712 (2.8 mg/kg), LM-SB14-(24-32)-112712 (17 mg/kg), and LM-SB16-(24-36)-112712 (3.5 mg/kg).
- Indeno(1,2,3-cd)pyrene exceeded the EPA RML for residential soil of 15 mg/kg in sample LM-SB14-(24-32)-112712 (30 mg/kg).

4.2 CONCRETE SAMPLE ANALYTICAL RESULTS

The remaining concrete pad/foundation was sampled to determine the appropriate method of disposal. The metal slag was observed to be mixed into the concrete pad and foundation and generally would not create an exposure to humans. The concrete sample analytical results are summarized below.

4.2.1 pH

The pH result was 8.1 standard units (see **Table 4**).

4.2.2 RCRA Metals

The following RCRA metals (plus copper, manganese, and zinc) were detected in concrete sample LM-Concrete-112712 (see **Table 4**):

- Arsenic at 17 mg/kg
- Barium at 130 mg/kg
- Cadmium at 110 mg/kg
- Chromium at 51 mg/kg
- Copper at 320,000 mg/kg
- Lead at 24,000 mg/kg
- Manganese at 140 mg/kg
- Mercury at 0.5 mg/kg
- Selenium at 8.1 mg/kg
- Silver at 62 mg/kg
- Zinc at 58,000 mg/kg

5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered in determining the appropriateness of a potential removal action at a Site are delineated in the NCP at 40 CFR 300.415(b)(2). A summary of the factors applicable to this Site is presented below.

- **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances, pollutants, or contaminants**

The Site is located in a residential area. Sensitive populations near the Site include numerous residential properties. In addition, two elementary schools, one high school, and two churches are located within 1 mile of the Site. Animal tracks were observed in soil at the Site. A community garden is located south of the Site.

During the site assessment, Site access was completely unrestricted. Evidence of transient housing was noted on the adjacent railroad property. Numerous young children were observed walking on the developed sidewalk that borders the north side of the Site to the nearby elementary school. Many residents and pets were observed using the recreational trail that borders the east side of the Site. Shortly after the site assessment in December of 2012, the City of Chicago erected a temporary fence on the right of way to prohibit access to the site. The fence is also equipped with a mesh screen to reduce windblown dust from the site.

Based on the site assessment XRF field screening results, arsenic and lead readings exceeded the EPA RMLs for residential and industrial soil and the 40 CFR Part 745 URSL. Based on site assessment soil sample analytical results, lead and mercury concentrations exceeded the EPA RMLs for residential and industrial soil. In addition, the following chemicals were detected at concentrations exceeding the EPA RMLs for residential and industrial soil - arsenic, copper, lead, mercury, zinc, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. In addition, 1,2-benzphenanthracene and naphthalene exceeded the EPA RML for residential soil in at least one sample location. TCLP lead also was detected at concentrations exceeding the definition of hazardous waste for the characteristic of toxicity.

Based on site assessment concrete sample analytical results, the concrete sample contained arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, selenium, silver, and zinc.

Exposure to lead can interfere with a variety of body processes and is toxic to many organs and tissues, including the heart, bones, intestines, kidneys, and reproductive and nervous systems. It is known to interfere with the development of the nervous system and therefore is particularly toxic to children, causing potentially permanent learning and behavior disorders.

- **Weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released**

Chicago receives an average yearly precipitation of 36.27 inches. Average temperatures range from 9 to 88 °F. The Site ground surface is relatively flat except for the area elevated approximately 4 to 5 feet above grade in the southern portion of the Site. During the site assessment, no storm or sanitary sewers or drainage ditches were observed on or around the Site, although sanitary sewers are located approximately 1,000 feet west of the Site. Because of the lack of a storm water drainage system at the Site, weather-related release or migration of hazardous materials is possible.

Site assessment soil sample analytical results indicate surface and subsurface soil contamination at the Site.

- **The availability of other appropriate federal or state response mechanisms to respond to the release**

The IEPA referred the Site to the EPA to determine if the Site warrants a time-critical removal action.

The City of Chicago, Department of Health, has requested EPA's assistance to conduct a removal action at this site. The City of Chicago, erected a temporary fence and mesh curtain to contain dust around the right of way at the site. This will temporarily prevent access to the site and eliminate or minimize any windblown dust from the property.

6. CONCLUSIONS

WESTON START and the EPA FIELDS Team collected samples from 69 soil intervals from 19 soil borings on Site. Samples from each interval were screened for lead and arsenic using XRF analyzers. Based on the site assessment XRF field screening results, arsenic and lead readings exceeded the EPA RMLs for residential and industrial soil and lead readings exceeded the 40 CFR Part 745 URSL.

From those intervals, 22 soil samples (19 investigative and 3 duplicate samples) were collected and analyzed for pH and RCRA metals plus copper, manganese, and zinc. Additionally, three soil samples were analyzed for TCLP metals, TCL pesticides, PCBs, TCL VOCs, and TCL SVOCs. One duplicate sample was analyzed for TCL VOCs only. One concrete sample was analyzed for pH and RCRA metals plus copper, manganese, and zinc.

Based on site assessment soil sample analytical results, lead concentrations exceeded the EPA RMLs for residential and industrial soil and the 40 CFR Part 745 URSL. In addition, the

following chemicals were detected at concentrations exceeding the EPA RMLs for residential and industrial soil: arsenic, copper, lead, mercury, and zinc. TCLP lead also was detected at concentrations exceeding the screening criterion deeming it a hazardous waste.

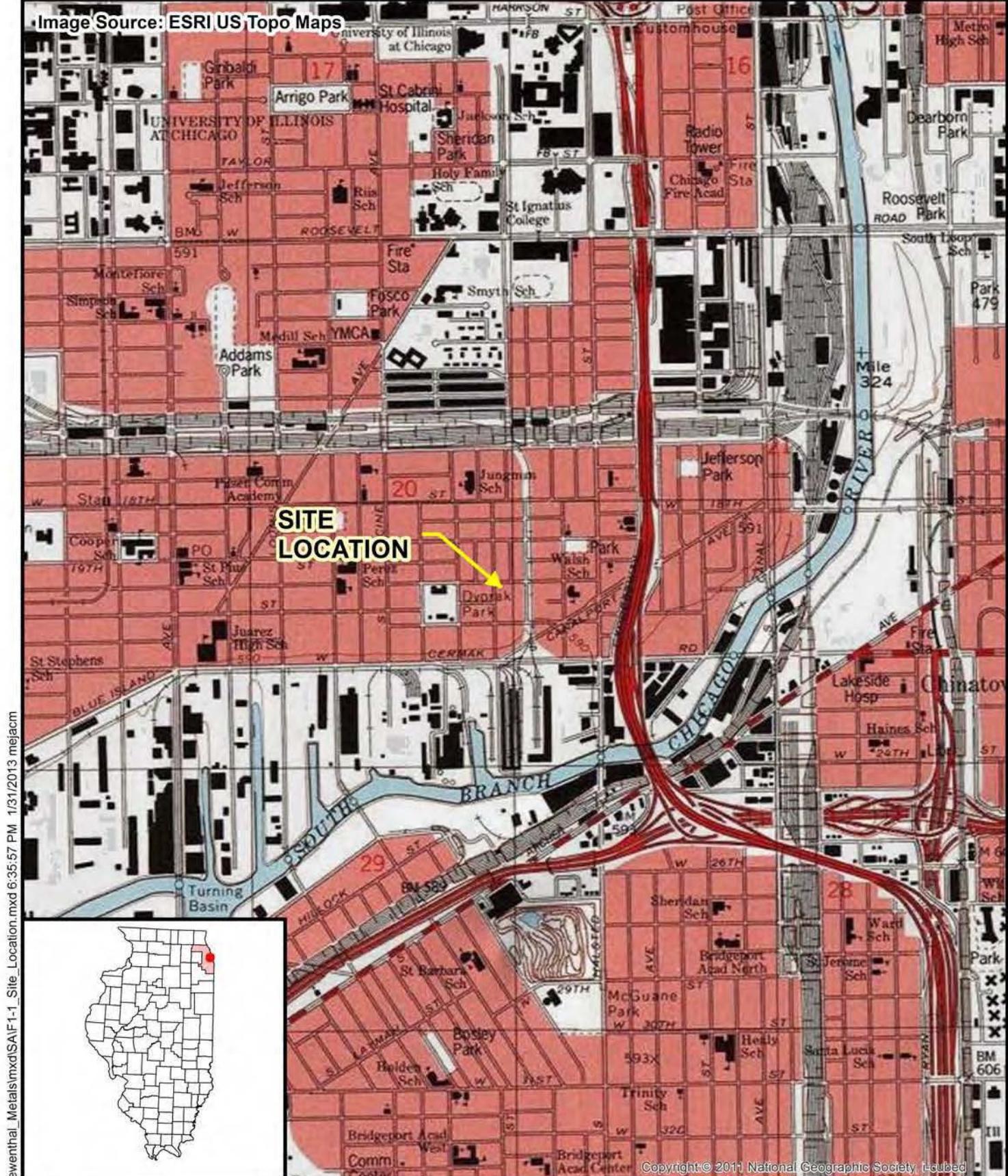
Based on the site assessment, the following chemicals were detected in the concrete sample: arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, selenium, silver, and zinc.

The site assessment and screening data from the XRF and laboratory data that has been received has determined that elevated concentrations of contaminants at the Site pose a risk to the public health or welfare of the United States or the environment. Hazards identified at the Site include the following uncontrolled factors:

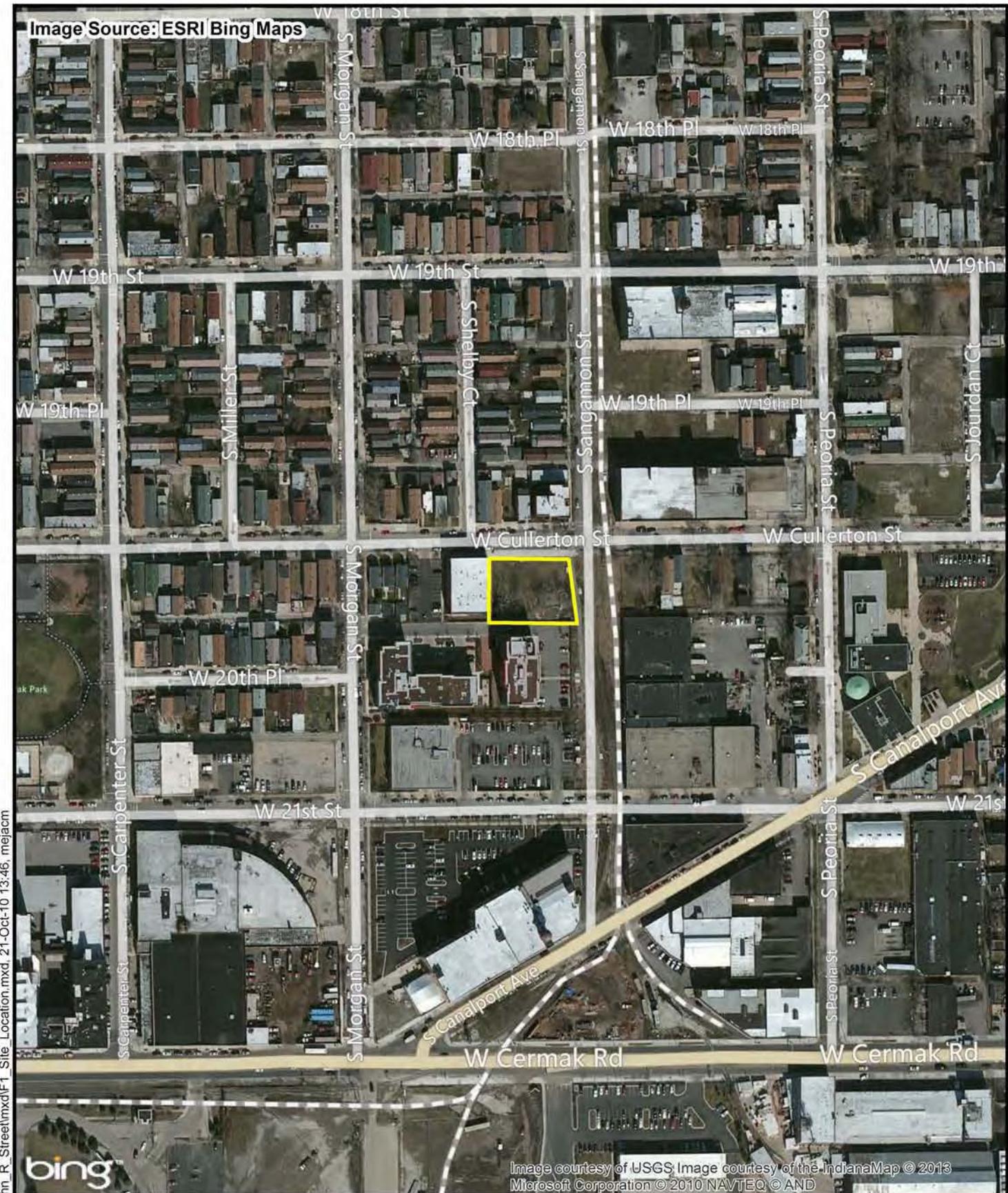
- Surface and subsurface soil contamination
- High levels of metals were detected in a sample from the concrete pad and foundation. TCLP lead also was detected in the concrete at concentrations exceeding the definition of hazardous waste for the characteristic of toxicity
- Close proximity of Site to residential properties and other sensitive receptors (including churches and schools)
- Potential migration pathways from waste on-site to public areas

Contaminants and conditions at the Site meet criteria established in the NCP for a removal action. EPA will begin preparing for a time critical removal action at this site and will prepare action memorandum to document the threats to human health and the environment.

FIGURES



Legend  	Prepared for:  U.S. EPA REGION V Contract No.: EP-S5-06-04 TDD: S05-0001-1201-003 DCN: 1714-2A-BFRO	Prepared By:  WESTON SOLUTIONS, INC 750 E Bunker Ct Suite 500 Vernon Hills, IL 60061	Figure 1-1 Site Location Map Loewenthal Metals Chicago, Cook County, Illinois
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TABLES

Table 1
XRF Screening Results for Arsenic and Lead
Loewenthal Metals
Chicago, Cook County, Illinois

Screening Parameter	Location ID				LM-SB01	LM-SB02	LM-SB03	LM-SB05	LM-SB07	LM-SB08	LM-SB10	LM-SB11	LM-SB13	LM-SB14
	Sampling Date				11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012
	Depth Interval (inches bgs)	U.S. EPA RML-Res ¹	U.S. EPA RML-Ind ²	40 CFR Part 745 ³	Result (ppm)									
Arsenic, XRF	0 - 3	39	160	---	NA	NA	NA	NA	NA	38.5	NA	NA	NA	NA
Arsenic, XRF	0 - 6	39	160	---	NA	16.5 U	15.5 U	5	22 U	NA	34.5	44.5	17 U	25
Arsenic, XRF	0 - 10	39	160	---	45	NA								
Arsenic, XRF	6 - 12	39	160	---	NA	28.5	45.5	NA	139	NA	88.5	31	23	67.5
Arsenic, XRF	6 - 16	39	160	---	NA	NA	NA	101.5	NA	NA	NA	NA	NA	NA
Arsenic, XRF	12 - 18	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, XRF	12 - 22	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, XRF	12 - 24	39	160	---	NA	58	398.5	NA	102	NA	49.5	12 U	23.5	122.5
Arsenic, XRF	24 - 32	39	160	---	NA	NA	NA	276.5	NA	NA	NA	NA	28.5	109.5
Arsenic, XRF	24 - 34	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, XRF	24 - 36	39	160	---	NA	1,087.5	164	NA	NA	NA	51	11 U	NA	NA
Lead, XRF	0 - 3	400	800	1,200	NA	NA	NA	NA	1,071.50	NA	NA	NA	NA	NA
Lead, XRF	0 - 6	400	800	1,200	NA	397.5	386	89.5	712.5	NA	924.5	877	393.5	632
Lead, XRF	0 - 10	400	800	1,200	1,375	NA								
Lead, XRF	6 - 12	400	800	1,200	NA	519.5	685.5	NA	1,499	NA	2,528.5	1,078	464.5	905.5
Lead, XRF	6 - 16	400	800	1,200	NA	NA	NA	2,011.5	NA	NA	NA	NA	NA	NA
Lead, XRF	12 - 18	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	12 - 22	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	12 - 24	400	800	1,200	NA	744.5	26,794	NA	2,130	NA	2,190.5	218.5	564.5	2,204.5
Lead, XRF	24 - 32	400	800	1,200	NA	NA	NA	2,660	NA	NA	NA	NA	693	2,782.5
Lead, XRF	24 - 34	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	24 - 36	400	800	1,200	NA	25,479	2,378.5	NA	NA	NA	2,410	170.5	NA	NA

Table 1
XRF Screening Results for Arsenic and Lead
Loewenthal Metals
Chicago, Cook County, Illinois

Screening Parameter	Location ID			LM-SB15	LM-SB16	LM-SB16D	LM-SB17	LM-SB19	LM-SB20	LM-SB21	LM-SB22	LM-SB23	
	Sampling Date			11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	
	Depth Interval (inches bgs)	U.S. EPA RML-Res ¹	U.S. EPA RML-Ind ²	40 CFR Part 745 ³	Result (ppm)								
Arsenic, XRF	0 - 3	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic, XRF	0 - 6	39	160	---	43	17.5 U	24.5	45.5 U	67.5	25.5	33	39	230
Arsenic, XRF	0 - 10	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, XRF	6 - 12	39	160	---	46	42	60	80.5	91.5	55	122	39.5	328.5
Arsenic, XRF	6 - 16	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, XRF	12 - 18	39	160	---	NA	NA	NA	NA	NA	NA	NA	85.5	NA
Arsenic, XRF	12 - 22	39	160	---	NA	NA	NA	NA	NA	NA	43.5 U	NA	NA
Arsenic, XRF	12 - 24	39	160	---	331.5	127.5	199	19.5	40.5	73.5	NA	NA	240.5
Arsenic, XRF	24 - 32	39	160	---	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, XRF	24 - 34	39	160	---	220	NA	NA						
Arsenic, XRF	24 - 36	39	160	---	NA	48 U	50 U	15	NA	NA	NA	NA	19.5
Arsenic, XRF	36 - 48	39	160	---	NA	NA	40.5 U	NA	NA	NA	NA	NA	NA
Arsenic, XRF	48 - 60	39	160	---	NA	NA	67.5 U	NA	NA	NA	NA	NA	NA
Arsenic, XRF	60 - 72	39	160	---	NA	NA	62.5 U	NA	NA	NA	NA	NA	NA
Arsenic, XRF	72 - 84	39	160	---	NA	NA	12.5 U	NA	NA	NA	NA	NA	NA
Arsenic, XRF	84 - 96	39	160	---	NA	NA	5 U	NA	NA	NA	NA	NA	NA
Lead, XRF	0 - 3	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	0 - 6	400	800	1,200	983	573.5	459	3,434	1,879.5	699.5	404	631	5,512
Lead, XRF	0 - 10	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	6 - 12	400	800	1,200	1,028	1,747	2,298.50	5,638.5	2,199.5	1,093.5	2,821.5	742	6,195.5
Lead, XRF	6 - 16	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	12 - 18	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	2,034	NA
Lead, XRF	12 - 22	400	800	1,200	NA	NA	NA	NA	NA	NA	2,576	NA	NA
Lead, XRF	12 - 24	400	800	1,200	9,196.5	13,721.5	15,928.5	299.5	3,306	4,666.5	NA	NA	4,386
Lead, XRF	24 - 32	400	800	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, XRF	24 - 34	400	800	1,200	4,996	NA	NA						
Lead, XRF	24 - 36	400	800	1,200	NA	3,016	3,112.5	67.5	NA	NA	NA	NA	511
Lead, XRF	36 - 48	400	800	1,200	NA	NA	2,417	NA	NA	NA	NA	NA	NA
Lead, XRF	48 - 60	400	800	1,200	NA	NA	5,123.5	NA	NA	NA	NA	NA	NA
Lead, XRF	60 - 72	400	800	1,200	NA	NA	5,175	NA	NA	NA	NA	NA	NA
Lead, XRF	72 - 84	400	800	1,200	NA	NA	353	NA	NA	NA	NA	NA	NA
Lead, XRF	84 - 96	400	800	1,200	NA	NA	11.3	NA	NA	NA	NA	NA	NA

Notes:

Exceeds U.S. EPA RML - Residential Soil

Exceeds U.S. EPA RML - Residential and Industrial Soil

Exceeds 40 CFR Part 745 URSL and U.S. EPA RML - Residential and Industrial Soil

1 U.S. EPA RML - Residential Soil - Hazard Quotient 3

2 U.S. EPA RML - Industrial Soil - Hazard Quotient 3

3 40 CFR, Part 745 URSL

bgs - Below ground surface

CFR - Code of Federal Regulations

ID - Identification

NA - Not analyzed

ppm - Part per million

RML - Removal Management Level

U - Not detected

URSL - Unoccupied Residential Soil Level

U.S. EPA - United States Environmental Protection Agency

Table 2
Anic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Table 2
Organic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID		LM-SB01	LM-SB03	LM-SB03	LM-SB05	LM-SB05	LM-SB07	LM-SB07	LM-SB10	LM-SB10	LM-SB14	LM-SB14	LM-SB14	LM-SB15
	Field Sample ID		LM-SB01-(0-10)- 112712	LM-SB03-(12-24)- 112712	LM-SB03-(24-36)- 112712	LM-SB05-(6-16)- 112712	LM-SB05-(6-16)- 112712D	LM-SB07-(6-12)- 112712	LM-SB07-(12-24)- 112712	LM-SB10-(24-36)- 112712	LM-SB10-(24-36)- 112712D	LM-SB14-(6-12)- 112712	LM-SB14-(12-24)- 112712	LM-SB14-(24-32)- 112712	LM-SB15-(12-24)- 112712
	Sampling Date		11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012
	Depth Interval (inches bgs)		0- 10	12- 24	24- 36	6- 16	6- 16	6- 12	12- 24	24- 36	24- 36	6- 12	12- 24	24- 32	12- 24
40 CFR ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³													
Endosulfan II	NL	NL	NL	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Endosulfan sulfate	NL	NL	NL	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Endrin	NL	55	550	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Endrin aldehyde	NL	NL	NL	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Endrin ketone	NL	NL	NL	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Gamma-BHC	NL	52	210	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Gamma-chlordane	NL	NL	NL	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Heptachlor	NL	11	38	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
Heptachlor epoxide	NL	2.4	19	NA	NA	NA	0.0019 U	NA	NA	NA	NA	NA	NA	0.0024 U	NA
PCBs (mg/kg)															
Aroclor 1016	NL	12	110	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA
Aroclor 1221	NL	14	54	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA
Aroclor 1232	NL	14	54	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA
Aroclor 1242	NL	22	74	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA
Aroclor 1248	NL	22	74	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA
Aroclor 1254	NL	3.4	32	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA
Aroclor 1260	NL	22	74	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA	NA	0.12 U	NA

Table 2
Organic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID		LM-SB16	LM-SB16	LM-SB16	LM-SB17	LM-SB17	LM-SB19	LM-SB23	LM-SB23	LM-SB23
	Field Sample ID		LM-SB16-(0-6)- 112712	LM-SB16D-(12- 24)-112712	LM-SB16-(24-36)- 112712	LM-SB17-(12-24)- 112712	LM-SB17-(24-36)- 112712	LM-SB19-(12-24)- 112712	LM-SB23-(12-24)- 112712	LM-SB23-(6-12)- 112712	LM-SB23-(12-24)- 112712D
	Sampling Date		11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012
	Depth Interval (inches bgs)		0- 6	12- 24	24- 36	12- 24	24- 36	12- 24	12- 24	6- 12	12- 24
40 CFR ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³									
TCL VOCs (mg/kg)											
1,1,1-Trichloroethane	NL	26,000	110,000	NA	NA	0.0057 U	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NL	56	280	NA	NA	0.0057 U	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NL	4.8	20	NA	NA	0.0057 U	NA	NA	NA	NA	NA
1,1-Dichloroethane	NL	330	1,700	NA	NA	0.0057 U	NA	NA	NA	NA	NA
1,1-Dichloroethylene	NL	730	3,200	NA	NA	0.0057 U	NA	NA	NA	NA	NA
1,2-Dichloroethane	NL	43	220	NA	NA	0.0057 U	NA	NA	NA	NA	NA
1,2-Dichloropropane	NL	51	210	NA	NA	0.0057 U	NA	NA	NA	NA	NA
2-Butanone	NL	84,000	590,000	NA	NA	0.086 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NL	16,000	160,000	NA	NA	0.023 U	NA	NA	NA	NA	NA
Acetone	NL	180,000	1,900,000	NA	NA	0.086 U	NA	NA	NA	NA	NA
Benzene	NL	110	540	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Bromodichloromethane	NL	27	140	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Bromomethane	NL	22	97	NA	NA	0.011 U	NA	NA	NA	NA	NA
Carbon disulfide	NL	2,500	11,000	NA	NA	0.057 U	NA	NA	NA	NA	NA
Carbon tetrachloride	NL	61	300	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Chlorobenzene	NL	880	4,200	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Chlorodibromomethane	NL	68	330	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Chloroethane	NL	44,000	180,000	NA	NA	0.011 U	NA	NA	NA	NA	NA
Chloroform	NL	29	150	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Chloromethane	NL	360	1,500	NA	NA	0.011 U	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NL	470	6,100	NA	NA	0.0057 U	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NL	NL	NL	NA	NA	0.0023 U	NA	NA	NA	NA	NA
Dichloromethane	NL	1,100	9,200	NA	NA	0.011 U	NA	NA	NA	NA	NA
Ethylbenzene	NL	540	2,700	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Methyl n-butyl ketone	NL	630	4,100	NA	NA	0.023 U	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NL	4,300	22,000	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Methylbenzene	NL	15,000	140,000	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Styrene (Monomer)	NL	19,000	110,000	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Tetrachloroethene	NL	260	1,200	NA	NA	0.0057 U	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NL	460	2,100	NA	NA	0.0057 U	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NL	NL	NL	NA	NA	0.0023 U	NA	NA	NA	NA	NA
Tribromomethane	NL	3,700	22,000	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Trichloroethylene	NL	13	60	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Vinyl chloride	NL	6	170	NA	NA	0.0057 U	NA	NA	NA	NA	NA
Xylenes, Total	NL	1,800	7,600	NA	NA	0.017 U	NA	NA	NA	NA	NA
TCL SVOCs (mg/kg)											
1,2,4-Trichlorobenzene	NL	190	820	NA	NA	0.19 U	NA	NA	NA	NA	NA
1,2-Biphenylanthracene (Chrysene)	NL	1500	21000	NA	NA	14	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NL	5,700	30,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NL	240	1,200	NA	NA	0.19 U	NA	NA	NA	NA	NA
2, 2'-Oxybis(1-chloropropane)	NL	460	2200	NA	NA	0.19 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NL	18,000	180,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NL	180	1800	NA	NA	0.19 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NL	550	5,500	NA	NA	0.19 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NL	3,700	37,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NL	370	3,700	NA	NA	0.95 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NL	160	550	NA	NA	0.038 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NL	180	1900	NA	NA	0.038 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	NL	19,000	250,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
2-Chlorophenol	NL	1200	15,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	NL	690	6,600	NA	NA	0.89	NA	NA	NA	NA	NA
2-Methylphenol	NL	9,200	92,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
2-Nitroaniline	NL	1800	18,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
2-Nitrophenol	NL	NL	NL	NA	NA	0.19 U	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NL	110	380	NA	NA	0.19 U	NA	NA	NA	NA	NA
3,5,5-Trimethyl-2-cyclohexene-1-one	NL	37,000	180,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
3-Nitroaniline	NL	NL	NL	NA	NA	0.19 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NL	15	150	NA	NA	0.38 U	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NL	NL	NL	NA	NA	0.19 U	NA	NA	NA	NA	NA

Table 2
Organic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID		LM-SB16	LM-SB16	LM-SB16	LM-SB17	LM-SB17	LM-SB19	LM-SB23	LM-SB23	LM-SB23
	Field Sample ID		LM-SB16-(0-6)- 112712	LM-SB16D-(12- 24)-112712	LM-SB16-(24-36)- 112712	LM-SB17-(12-24)- 112712	LM-SB17-(24-36)- 112712	LM-SB19-(12-24)- 112712	LM-SB23-(12-24)- 112712	LM-SB23-(6-12)- 112712	LM-SB23-(12-24)- 112712D
	Sampling Date		11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012
	Depth Interval (inches bgs)		0- 6	12- 24	24- 36	12- 24	24- 36	12- 24	12- 24	6- 12	12- 24
	40 CFR ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³								
4-Chloro-3-methylphenol	NL	18,000	180,000	NA	NA	0.38 U	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NL	NL	NL	NA	NA	0.19 U	NA	NA	NA	NA	NA
4-Methylphenol	NL	18,000	180,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
4-Nitrophenol	NL	NL	NL	NA	NA	0.38 U	NA	NA	NA	NA	NA
Acenaphthene	NL	10,000	99,000	NA	NA	2.4	NA	NA	NA	NA	NA
Acenaphthylene	NL	NL	NL	NA	NA	0.87	NA	NA	NA	NA	NA
Aniline	NL	1300	13000	NA	NA	0.38 U	NA	NA	NA	NA	NA
Anthracene	NL	52,000	500,000	NA	NA	5.3	NA	NA	NA	NA	NA
Benzo(a)anthracene	NL	15	210	NA	NA	13	NA	NA	NA	NA	NA
Benzidine	NL	0.05	0.75	NA	NA	0.38 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	NL	1.5	21	NA	NA	12	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NL	15	210	NA	NA	11	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NL	NL	NL	NA	NA	6.5	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NL	150	2100	NA	NA	9.1	NA	NA	NA	NA	NA
Benzoic acid	NL	730,000	7,400,000	NA	NA	0.95 U	NA	NA	NA	NA	NA
Benzyl alcohol	NL	18,000	180,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
Benzyl butyl phthalate	NL	26,000	91000	NA	NA	0.19 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NL	550	5,500	NA	NA	0.19 U	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NL	21	100	NA	NA	0.19 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NL	3500	12,000	NA	NA	0.95 U	NA	NA	NA	NA	NA
Carbazole	NL	NL	NL	NA	NA	2.8	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NL	1.5	21	NA	NA	3.5	NA	NA	NA	NA	NA
Dibenzofuran	NL	230	3,100	NA	NA	1.4	NA	NA	NA	NA	NA
Diethyl phthalate	NL	150,000	1,500,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
Dimethyl phthalate	NL	NL	NL	NA	NA	0.19 U	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NL	18,000	180,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NL	2,200	22,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
Fluoranthene	NL	6,900	66,000	NA	NA	13	NA	NA	NA	NA	NA
Fluorene	NL	6,900	66,000	NA	NA	2.5	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene	NL	180	1800	NA	NA	0.19 U	NA	NA	NA	NA	NA
Hexachlorobenzene	NL	30	110	NA	NA	0.19 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NL	1100	11,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
Hexachloroethane	NL	130	1300	NA	NA	0.19 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NL	15	210	NA	NA	5.8	NA	NA	NA	NA	NA
M-Dichlorobenzene	NL	NL	NL	NA	NA	0.19 U	NA	NA	NA	NA	NA
Methanamine, n-methyl-n-nitroso	NL	0.23	3.4	NA	NA	0.19 U	NA	NA	NA	NA	NA
Naphthalene	NL	360	1800	NA	NA	1.9	NA	NA	NA	NA	NA
Nitrobenzene	NL	390	2400	NA	NA	0.038 U	NA	NA	NA	NA	NA
N-nitrosodi-n-propylamine	NL	6.9	25	NA	NA	0.038 U	NA	NA	NA	NA	NA
N-nitrosodiphenylamine	NL	9900	35000	NA	NA	0.038 U	NA	NA	NA	NA	NA
P-chloroaniline	NL	240	860	NA	NA	0.19 U	NA	NA	NA	NA	NA
Pentachlorophenol	NL	89	270	NA	NA	0.038 U	NA	NA	NA	NA	NA
Phenanthrene	NL	NL	NL	NA	NA	22	NA	NA	NA	NA	NA
Phenol	NL	55,000	550,000	NA	NA	0.19 U	NA	NA	NA	NA	NA
P-nitroaniline	NL	730	7400	NA	NA	0.19 U	NA	NA	NA	NA	NA
Pyrene	NL	5,200	50,000	NA	NA	22	NA	NA	NA	NA	NA
Pyridine	NL	230	3,100	NA	NA	0.76 U	NA	NA	NA	NA	NA
TCL Pesticides (mg/kg)											
1,1,1-Trichloro-2,2-bis (p-methoxyphenyl)-ethane	NL	920	9,200	NA	NA	0.0018 U	NA	NA	NA	NA	NA
4,4'-DDD	NL	200	720	NA	NA	0.0018 U	NA	NA	NA	NA	NA
4,4'-DDE	NL	140	510	NA	NA	0.0018 U	NA	NA	NA	NA	NA
4,4'-DDT	NL	110	700	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Aldrin	NL	2.9	10	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Alpha-BHC	NL	7.7	27	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Alpha-chlordane	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Beta-BHC	NL	27	96	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Camphechlor	NL	44	160	NA	NA	0.038 U	NA	NA	NA	NA	NA
Chlordane	NL	110	650	NA	NA	0.018 U	NA	NA	NA	NA	NA
Delta-BHC	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Dieldrin	NL	3	11	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Endosulfan I	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA

Table 2
Organic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID		LM-SB16	LM-SB16	LM-SB16	LM-SB17	LM-SB17	LM-SB19	LM-SB23	LM-SB23	LM-SB23
	Field Sample ID		LM-SB16-(0-6)- 112712	LM-SB16D-(12- 24)-112712	LM-SB16-(24-36)- 112712	LM-SB17-(12-24)- 112712	LM-SB17-(24-36)- 112712	LM-SB19-(12-24)- 112712	LM-SB23-(12-24)- 112712	LM-SB23-(6-12)- 112712	LM-SB23-(12-24)- 112712D
	Sampling Date		11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012
	Depth Interval (inches bgs)	0- 6	12- 24	24- 36	12- 24	24- 36	12- 24	12- 24	6- 12	12- 24	
40 CFR ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³									
Endosulfan II	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Endosulfan sulfate	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Endrin	NL	55	550	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Endrin aldehyde	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Endrin ketone	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Gamma-BHC	NL	52	210	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Gamma-chlordane	NL	NL	NL	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Heptachlor	NL	11	38	NA	NA	0.0018 U	NA	NA	NA	NA	NA
Heptachlor epoxide	NL	2.4	19	NA	NA	0.0018 U	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor 1016	NL	12	110	NA	NA	0.092 U	NA	NA	NA	NA	NA
Aroclor 1221	NL	14	54	NA	NA	0.092 U	NA	NA	NA	NA	NA
Aroclor 1232	NL	14	54	NA	NA	0.092 U	NA	NA	NA	NA	NA
Aroclor 1242	NL	22	74	NA	NA	0.092 U	NA	NA	NA	NA	NA
Aroclor 1248	NL	22	74	NA	NA	0.092 U	NA	NA	NA	NA	NA
Aroclor 1254	NL	3.4	32	NA	NA	0.092 U	NA	NA	NA	NA	NA
Aroclor 1260	NL	22	74	NA	NA	0.092 U	NA	NA	NA	NA	NA

Notes:

Exceeds U.S. EPA RML - Residential Soil

Exceeds U.S. EPA RML - Residential and Industrial Soil

1 40 CFR Part 261 Subpart C

2 U.S. EPA RMLs - Residential Soil - Hazard Quotient 3

3 U.S. EPA RMLs - Industrial Soil - Hazard Quotient 3

bgs - Below ground surface

CFR - Code of Federal Regulations

ID - Identification

J - Estimated value

mg/kg - Milligram per kilogram

NA - Not analyzed

NL - Not listed

RML - Removal Management Level

SVOC - Semivolatile organic compound

TCL - Target Compound List

U - Not detected

U.S. EPA - United States Environmental Protection Agency

VOC - Volatile organic compound

Table 3
Inorganic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID			LM-SB01	LM-SB03	LM-SB03	LM-SB05	LM-SB05	LM-SB07	LM-SB07	LM-SB10	
	Field Sample ID			LM-SB01-(0-10)-112712	LM-SB03-(12-24)-112712	LM-SB03-(24-36)-112712	LM-SB05-(6-16)-112712	LM-SB05-(6-16)-112712D	LM-SB07-(6-12)-112712	LM-SB07-(12-24)-112712	LM-SB10-(24-36)-112712	
	Sampling Date			11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	
	Depth Interval (inches bgs)			0- 10	12- 24	24- 36	6- 16	6- 16	6- 12	12- 24	24- 36	
	40 CFR Part 261 ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³	40 CFR Part 745 ⁴								
pH (S.U.)												
pH	≥12.5	NL	NL	NL	8.6	7.9	8.5	7.9	NA	8.5	8.4	8
Resource Conservation and Recovery Act Metals (mg/kg)												
Arsenic	NL	39	160	NL	4.9	16	11	6.2	NA	5.2	5.8	40
Barium	NL	46,000	570,000	NL	140	1,200	280	110	NA	430	210	240
Cadmium	NL	210	2,400	NL	5	61	11	7	NA	4.5	3.2	1.8
Chromium	NL	NL	NL	NL	7.8	19	14	8	NA	20	17	8.9
Copper	NL	9,400	120,000	NL	240	7,000	340	12,000	NA	360	450	680
Lead	NL	400	800	1,200	1,200	23,000	3,100	1,100	NA	2,200	920	13,000
Manganese	NL	5,500	68,000	NL	230	410	190	150	NA	310	510	230
Mercury	NL	30	130	NL	0.38	10	1.8	0.24	NA	0.46	0.4	3.6
Selenium	NL	1,200	15,000	NL	1.3 U	4.6	1.8	1.3	NA	1.1 U	0.98 U	1.1 U
Silver	NL	1,200	15,000	NL	1.3 U	2.8	1.2 U	2.3	NA	1.1 U	0.98 U	1.5
Zinc	NL	70,000	920,000	NL	890	37,000	3,900	19,000	NA	1600	1,300	620
Toxicity Characteristic Leaching Procedure Metals (mg/L)												
Arsenic, TCLP	5	NL	NL	NL	NA	NA	NA	0.011	NA	NA	NA	NA
Barium, TCLP	100	NL	NL	NL	NA	NA	NA	0.5 U	NA	NA	NA	NA
Cadmium, TCLP	1	NL	NL	NL	NA	NA	NA	0.12	NA	NA	NA	NA
Chromium, TCLP	5	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA	NA
Copper, TCLP	NL	NL	NL	NL	NA	NA	NA	4	NA	NA	NA	NA
Lead, TCLP	5	NL	NL	NL	NA	NA	NA	2.2	NA	NA	NA	NA
Manganese, TCLP	NL	NL	NL	NL	NA	NA	NA	1.2	NA	NA	NA	NA
Mercury, TCLP	0.2	NL	NL	NL	NA	NA	NA	0.0002 U	NA	NA	NA	NA
Selenium, TCLP	1	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA	NA
Silver, TCLP	5	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA	NA
Zinc, TCLP	NL	NL	NL	NL	NA	NA	NA	120	NA	NA	NA	NA

Table 3
Inorganic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID			LM-SB10	LM-SB14	LM-SB14	LM-SB14	LM-SB15	LM-SB16	LM-SB16	
	Field Sample ID			LM-SB10-(24-36)-112712D	LM-SB14-(6-12)-112712	LM-SB14-(12-24)-112712	LM-SB14-(24-32)-112712	LM-SB15-(12-24)-112712	LM-SB16-(0-6)-112712	LM-SB16D-(12-24)-112712	
	Sampling Date			11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	
	Depth Interval (inches bgs)			24- 36	6- 12	12- 24	24- 32	12- 24	0- 6	12- 24	
	40 CFR Part 261 ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³	40 CFR Part 745 ⁴							
pH (S.U.)											
pH	≥12.5	NL	NL	NL	7.6	8.6	8.2	8.4	7.9	8.3	7.8
Resource Conservation and Recovery Act Metals (mg/kg)											
Arsenic	NL	39	160	NL	10	4.2	2.8	10	5.4	4.6	46
Barium	NL	46,000	570,000	NL	210	970	1,800	360	660	200	1,200
Cadmium	NL	210	2,400	NL	1.8	1.4	4.4	25	19	2.3	47
Chromium	NL	NL	NL	NL	11	15	28	50	63	13	51
Copper	NL	9,400	120,000	NL	990	93	240	4,500	6,000	190	17,000
Lead	NL	400	800	1,200	3,400	980	3,300	9,700	13,000	610	22,000
Manganese	NL	5,500	68,000	NL	320	200	130	610	170	410	520
Mercury	NL	30	130	NL	1.6	0.22	0.23	1.6	2	0.25	8.8
Selenium	NL	1,200	15,000	NL	1 U	0.93 U	1.2 U	1.5 U	1.4 U	1.1 U	5.1
Silver	NL	1,200	15,000	NL	1 U	0.93 U	1.2 U	2.9	2.4	1.1 U	9.2
Zinc	NL	70,000	920,000	NL	930	780	1,000	12,000	5,500	860	21,000
Toxicity Characteristic Leaching Procedure Metals (mg/L)											
Arsenic, TCLP	5	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA
Barium, TCLP	100	NL	NL	NL	NA	NA	NA	0.85	NA	NA	NA
Cadmium, TCLP	1	NL	NL	NL	NA	NA	NA	0.35	NA	NA	NA
Chromium, TCLP	5	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA
Copper, TCLP	NL	NL	NL	NL	NA	NA	NA	2.3	NA	NA	NA
Lead, TCLP	5	NL	NL	NL	NA	NA	NA	16	NA	NA	NA
Manganese, TCLP	NL	NL	NL	NL	NA	NA	NA	3.3	NA	NA	NA
Mercury, TCLP	0.2	NL	NL	NL	NA	NA	NA	0.0002 U	NA	NA	NA
Selenium, TCLP	1	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA
Silver, TCLP	5	NL	NL	NL	NA	NA	NA	0.01 U	NA	NA	NA
Zinc, TCLP	NL	NL	NL	NL	NA	NA	NA	92	NA	NA	NA

Table 3
Inorganic Soil Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Location ID			LM-SB16	LM-SB17	LM-SB17	LM-SB19	LM-SB23	LM-SB23	LM-SB23	
	Field Sample ID			LM-SB16-(24-36)-112712	LM-SB17-(12-24)-112712	LM-SB17-(24-36)-112712	LM-SB19-(12-24)-112712	LM-SB23-(6-12)-112712	LM-SB23-(12-24)-112712	LM-SB23-(12-24)-112712D	
	Sampling Date			11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	11/27/2012	
	Depth Interval (inches bgs)			24- 36	12- 24	24- 36	12- 24	6- 12	12- 24	12- 24	
	40 CFR Part 261 ¹	U.S. EPA RML-Res ²	U.S. EPA RML-Ind ³	40 CFR Part 745 ⁴							
pH (S.U.)											
pH	≥12.5	NL	NL	NL	7.9	7.3	6.1	7.8	8.3	7.9	7.8
Resource Conservation and Recovery Act Metals (mg/kg)											
Arsenic	NL	39	160	NL	15 J	5.1	25	9	12	15	20
Barium	NL	46,000	570,000	NL	230	78	85	69	1,200	440	640
Cadmium	NL	210	2,400	NL	25 J	1.4	9.6	10	17	16	26
Chromium	NL	NL	NL	NL	14 J	7.5	13	14	29	11	12
Copper	NL	9,400	120,000	NL	2,100	150	49	89	3,200	1,300	1,900
Lead	NL	400	800	1,200	7,400	1,600	110	200	5,700	3,600	7,900
Manganese	NL	5,500	68,000	NL	190	320	130	100	290	300	400
Mercury	NL	30	130	NL	7.8	0.59	0.067	0.11	1.1	5.6	53
Selenium	NL	1,200	15,000	NL	1.7 J	1.2 U	3.2	1.4 U	2.1	1.7	2
Silver	NL	1,200	15,000	NL	1.7 J	1.2 U	1.4 U	1.4 U	1.6	12	1.7
Zinc	NL	70,000	920,000	NL	14,000	1,900	1,300	1,400	6,200	9,300	9,500
Toxicity Characteristic Leaching Procedure Metals (mg/L)											
Arsenic, TCLP	5	NL	NL	NL	0.01 U	NA	NA	NA	NA	NA	NA
Barium, TCLP	100	NL	NL	NL	0.5 U	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	1	NL	NL	NL	0.74	NA	NA	NA	NA	NA	NA
Chromium, TCLP	5	NL	NL	NL	0.01 U	NA	NA	NA	NA	NA	NA
Copper, TCLP	NL	NL	NL	NL	19	NA	NA	NA	NA	NA	NA
Lead, TCLP	5	NL	NL	NL	76	NA	NA	NA	NA	NA	NA
Manganese, TCLP	NL	NL	NL	NL	1.8	NA	NA	NA	NA	NA	NA
Mercury, TCLP	0.2	NL	NL	NL	0.0002 U	NA	NA	NA	NA	NA	NA
Selenium, TCLP	1	NL	NL	NL	0.01 U	NA	NA	NA	NA	NA	NA
Silver, TCLP	5	NL	NL	NL	0.01 U	NA	NA	NA	NA	NA	NA
Zinc, TCLP	NL	NL	NL	NL	510	NA	NA	NA	NA	NA	NA

Notes:

Exceeds U.S. EPA RML - Residential Soil

1 40 CFR Part 261 Subpart C

Exceeds U.S. EPA RML - Residential and Industrial Soil

2 U.S. EPA RMLs - Residential Soil - Hazard Quot

Exceeds 40 CFR Part 745 URSL and

3 U.S. EPA RMLs - Industrial Soil - Hazard Quotie

U.S. EPA RML - Residential and Industrial Soil

4 40 CFR Part 745 URSL

Exceeds 40 CFR Part 261

bgs - Below ground surface

RCRA - Resource Conservation and Recovery Act Metals

CFR - Code of Federal Regulations

RML - Removal Management Level

ID - Identification

S.U. - Standard unit

J - Estimated value

TCLP - Toxicity Characteristic Leaching Procedure Metals

mg/kg - Milligram per kilogram

U - Not detected

mg/L - Milligram per liter

URSL - Unoccupied Residential Soil Level

NA - Not analyzed

U.S. EPA - United States Environmental Protection Agency

NL - Not listed

Table 4
Concrete Sample Analytical Results
Loewenthal Metals
Chicago, Cook County, Illinois

Analytical Parameter	Field Sample ID	LM-Concrete-112712
	Sampling Date	11/27/2012
pH (S.U.)		
pH		8.1
RCRA Metals (mg/kg)		
Arsenic		17
Barium		130
Cadmium		110
Chromium		51
Copper		320,000
Lead		24,000
Manganese		140
Mercury		0.5
Selenium		8.1
Silver		62
Zinc		58,000

Notes:

ID - Identification

mg/kg - Milligram per kilogram

RCRA - Resource Conservation and Recovery Act

S.U. - Standard unit

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION



Site: Loewenthal Metals

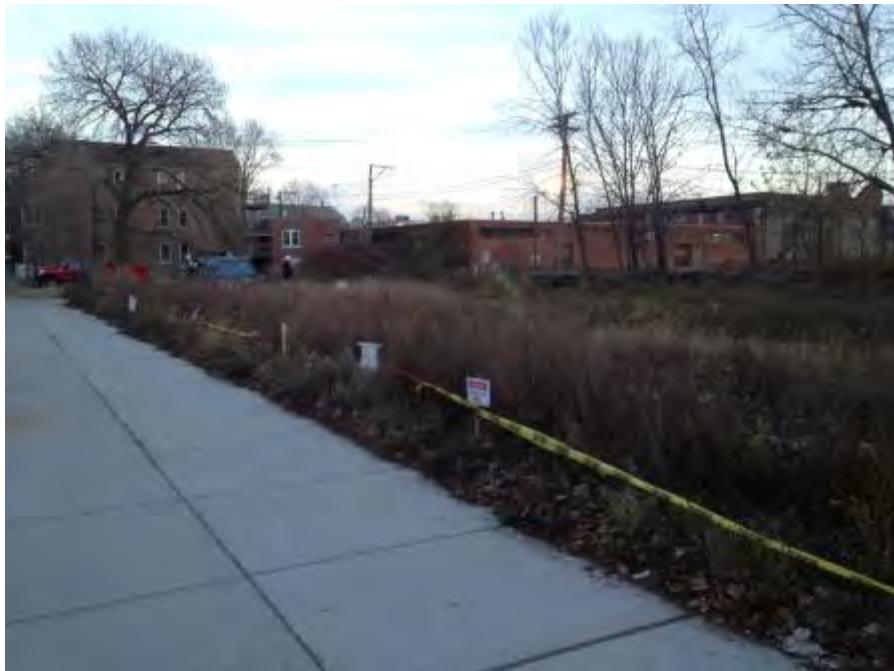
Photograph No.: 1

Date: 11/27/12

Direction: South

Photographer: Jonathan Colomb

Subject: Elevated southern portion of Site and residential condos beyond



Site: Loewenthal Metals

Photograph No.: 2

Date: 11/27/12

Direction: East

Photographer: Jonathan Colomb

Subject: Northern Site boundary with resident-made “caution” signs



Site: Loewenthal Metals

Photograph No.: 3

Date: 11/27/12

Direction: West

Photographer: Jonathan Colomb

Subject: U.S. EPA warrant posted at the Site before site assessment



Site: Loewenthal Metals

Photograph No.: 4

Date: 11/27/12

Direction: West

Photographer: Jonathan Colomb

Subject: Two empty polyethylene drums present at the Site before the site assessment



Site: Loewenthal Metals

Photograph No.: 5

Direction: West

Subject: U.S. EPA Geoprobe drilling at location on former concrete foundation

Date: 11/27/12

Photographer: Jonathan Colomb



Site: Loewenthal Metals

Photograph No.: 6

Direction: North

Subject: On-site decontamination station

Date: 11/27/12

Photographer: Jonathan Colomb

APPENDIX B
FIELD BORING LOGS



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-01

Sheet: 1 of 1

Geologist: J. Cato

Date: 11/27/12 1115

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 50"	10 / 10	S	Sandy sand; firm to coarse; few small gravel; dry no odor EOD @ 30" Recovering 10" wood chips in barrel	0.0 0.7	

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-02

Sheet: 1 of 1

Geologist: J. Colborn

Date: 11/27/12 1450

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0-6"	6/16	SM	Sandy silt; fine to medium sand; dark brown; damp; no odor.		
6-18	12/12	SM	Sandy silt; fine to coarse sand; small to medium gravel; dark brown; damp; no odor.		
18-36		SM	Same as above		

2013 @ 36"

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-03

Sheet: 1 of 1

Geologist: J. Colombe

Date: 11/24/12 1435

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth: 3'

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 9"	9/9	SM	Sandy silt; tan to md. gray; dark brown; sm. gravel, no clsts.		
9" - 25"	16/16	SM	Sandy silt; tan to md. sand; dark brown; pulverized brick; dry; no coh		
25 - 35"	10/10	SM	Same as above w/ sm. gravel		

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-05

Sheet: 1 of 1

Geologist: J. Coland

Date: 11/27/12 1425

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth: 11.5 "

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 9"	3/8	sm	Sandy silt; fine to medium gravel; dark brown; damp; no odor	2.5	
9" - 16"	3/8	sm	Sandy silty; fine to medium gravel; dark brown/black; strong petroleum odor; refusal @ 11.5'; tr. sm. gravel		Collect extreme parameters

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 513-07

Sheet: 1 of 1

Geologist: J. Colantu

Date: 11/27/12 1120

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 6"	6 1/4	Ssm	Brown sandy silt; flocular sand; clastic brown; dry; no odor;		
6 - 20	10 1/4	Ssm	Same as above; discolored brown; tr. sand. ground		
20 - 32	10 1/2	Ssm	Sandy silty; some sand & med. gravel; flocular sand; wood chips		

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-08

Sheet: 1 of 1

Geologist: J. Colomby

Date: 11/27/12 1135

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0-3	3/3"	SM	Sandy silt; F → coarse sand; sm → m. gravel dark brown, dry, no odor <i>Note</i> Refusal @ 36"! Recovery of 3"; 6 attempts.	0-3	

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: S3 - 09

Sheet: / of /

Geologist: J. Cullen

Date: 11/27/12 1145

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
			N. Recovery		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 58 - 10

Sheet: 1 of 1

Geologist: J. Colombe

Date: 11/27/12 1330

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 6"	9/9	SM	Sandy silt; Fine to coarse sand; 5 in. to 1 in. gravel; dark brown; damp; no odor		
4 - 39"	29/29"	SM	6 in. sandy silt; fine to medium sand; light brown/dark brown; damp; no odor		
			EOB @ 39"		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-11

Sheet: 1 of 1

Geologist: J. Colombe

Date: 11/27/12 1410

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth: 36"

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0-4"	4/4	SM	Sandy silt; fine to medium sand; dark brown; damp; no odor		
4-23	24/24	SM	Sandy silt; Fine to medium sand; light brown trace s.s. gravel; damp; no odor		
23 - 36	3/3	SM	Sandy silt; fine to coarse sand; dark brown; clay; no odor		

EOB @ 36"

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB - 13

Sheet: 1 of 1

Geologist: J. C. Smith

Date: 11 / 27 / 12 11:05

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 8"	3/8	sm	Fab sandy silt; dark brown; firm to medium grain; damp; no odor; tr. sm. sand	0.0	
8 - 16"	13/16	sm	Same as above; pulverized brick	0.0	
16 - 24"	6/8	sm	Sandy silt; f-s coarse; light brown; damp; no odor	0.0	
24 - 32"	3/8	sm	Same as above; light brown		
			4.0B @ 32"		

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 63-14

Sheet: 1 of 1

Geologist: J. Colson

Date: 11/27/12 1055

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0-4"	414	sm	Sandy silt; dark brown; few s & m. sand; damp; no odor		
4-12	318	sm	Sandy silt; F → m. ground; light brown; damp; no odor Pulverized brick		
12- 32	20/26	sm	Sandy silt; F → Coarse; tr. green dark brown; wood chips. no odor EOD @ 32'		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: S13-15-

Sheet: 1 of 1

Geologist: J. Cawie

Date: 11/27/12 1045

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0'-4"	4 1/4	sm	Silty silt; dark brown; f → m; pebbles; brash; damp; no odor	0.0	
4-20	16 1/4	sm	Sandy silt; light brown; f → coarse; tp. small gravel; damp; no odor	0.0	
20-					
34	14 1/4	sm	sm as above; wood char; damp; no odor		
			20'3" C 34'		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-14

Sheet: 1 of 1

Geologist: J. Collier

Date: 10/17/12 1045

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 12"	12/12	sm	Sandy Silt; f → m. sand; light brown; pulverized brick; clay; no odor	0-13	
12 - 24	12/12	sm	Sandy silt; f → m. coarse; dark brown; clay; sm. sand; no odor; dry	0-2	
24 - 36	12/12	sm	Sandy silt; F ac. light brown; clay; no odor; fr. sm. grains eob 0'36"		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB - 16D

Sheet: 1 of 1

Geologist: J. Colvin

Date: 11/27/12 1500

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0- 9"	4/9	SM	Sandy silt; fine to medium sand; dark brown; damp; pulverized brick; no odor		
9"- 24"	15/15	SM	Sandy silt; fine to medium sand; dark brown; tr. by small sand; damp; no odor		
24- 32	43 / 43	SM	Sandy silt; fine to medium sand; dark brown; damp; no odor		
32- 38	6/6		Sand as above		
38- 78					
78- 102	30 / 30	SP	Pointy gravel fine to medium sand; light brown; damp; no odor 40B @ 9'		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 513 - 17

Sheet: 1 of 1

Geologist: S. C. Smith

Date: 11/27/12 10:30

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth: 36 "

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (PPM)	Other Observations
0 - 14"	SB 14/14	SM	silty sand; f → m; tr. coarse; dark brown; dry; no odor	0.0	
14 - 24	10/10	SM	silty sand Sandy silt; dark brown; f → m & w; damp; no odor	0.0	
24 - 34	12/12		sm silt; f → com silt; dark brown; damp; no odor	0.0	

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 5B-19

Sheet: 1 of 1

Geologist: J. Colgan

Date: 11/27/12

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 9"	9/4"	SM	Silty sand; firm to mid. grained; some coarse, dark brown; some brick; dry; no odor	0.0	
9 - 11"	2/2	-	wood chips	1.0	
"-12	11/11	SM	silty sand; f-m sand light brown; polished brick; no odor	2.2	
22 - 24	2/2	-	wood chips	24.1	
			EoB @ 24"		

Sample ID:

Time:

Well ID:

Duplicate:

Time:

Screen Interval:

MS/MSD:

Time:

Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB-20

Sheet: 1 of 1

Geologist: J. Colant

Date:	Sampling Method:
Project:	Drilling Company:
Location:	Foreman:
Depth:	Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0-3"	3/3	SM	sandy silt; fine sand; dark brown; damp; no odor	0.0	
3-16"	13/13	SP	poorly graded sand; fine to med. sand; dark brown; damp; no odor	1.0	
16-24"	3/3	SM	sandy silt; fine sand; dark brown; damp; no odor	1.2	Refused @ 24"

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 10-21

Sheet: 1 of 1

Geologist: J. Colombe

Date: 11/27/12 1000

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 2"	212	-	wood chips		
2 - 14"	1212	SM	Silty sand; F > m some brick; damp; dark brown; no odo.	0.9	
14 - 22"	3/2	SP	poorly graded sand; F > m; dark brown; damp; wood chips; no odo.	0.0	Retained @ 18"

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: 53-22

Sheet: 1 of 1

Geologist: J. Coloway

Date: 11/27/12 1016

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0 - 2"	212	SM	Sandy silt; f → coarse sand; some small gravel; dark brown; dry; no odor	0.0	
2 - 13"	16/16	SP	Poosy gravel Sand; f → coarse; sm. gravel; damp; dark brown; no odor	0.0	

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:



The Trusted Integrator for Sustainable Solutions

Log of Boring: SB - 23

Sheet: 1 of 1

Geologist: J. Colant

Date: 11/27/12 1025

Sampling Method:

Project:

Drilling Company:

Location:

Foreman:

Depth:

Rig Type:

Depth (ft bgs)	Recovery (inches)	USCS Class.	Description	PID (ppm)	Other Observations
0-14"	14/14	SM	Silty sand; f → m sand; dark brown; damp; no odor	0.0	
14-24	10/10	SM	Sandy silt; f → m sand; dark brown; damp; no odor; H. sm. ground		
24-40	14/16		Sandy silt; f → coarse sand; dark brown; damp; no odor; sm. gravel		

Sample ID:	Time:	Well ID:
Duplicate:	Time:	Screen Interval:
MS/MSD:	Time:	Water Depth:

APPENDIX C
LABORATORY ANALYTICAL REPORT
AND DATA VALIDATION REPORT

**LOEWENTHAL METALS
CHICAGO, ILLINOIS
DATA VALIDATION REPORT**

Date: December 12, 2012

Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois

Laboratory Project #: 12110922

Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON[®]) Superfund Technical Assessment and Response Team (START)

Weston Work Order #: 20405.012.001.1714.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 23 soil samples collected for the Loewenthal Metals Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Volatile Organic Compounds (VOC) by SW-846 Method 8260B
- Semivolatile Organic Carbons (SVOC) by SW-846 Method 8270C
- Polychlorinated Biphenyls (PCB) by SW-846 Method 8082
- Pesticides by SW-846 Method 8081
- Metals by SW-846 Methods 6020 and 7471A
- Toxicity Characteristic Leaching Procedure (TCLP) TCLP Metals by SW-846 Methods 1311, 6020, and 7470A
- pH by SW-846 Method 9045C

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA “Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review” dated June 2008 and “Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review” dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

VOCs by SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	12/3/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	12/3/2012
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	12/3/2012
LM-SB05-(6-16)-112712D	12110922-023	Soil	11/27/2012	12/3/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

A method blank was analyzed with the VOC analyses. The blank was free of target analytes above the reporting limits. Chloromethane and methylene chloride were detected below the reporting limit in the method blank; however, these compounds were not detected in the samples and no qualifications were required.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS and LCS duplicate (LCSD) recoveries and relative percent differences (RPD) were within laboratory QC limits.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Site-specific MS and MSDs were not analyzed. No qualifications are required.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
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7. Field Duplicate Results

There is one field duplicate identified with a "D" suffix in the sample name. Acetone was detected in the filed duplicate but not in the parent sample. The acetone result detected in the field duplicate was below the reporting limit in the investigative sample. No qualifications were applied.

8. Overall Assessment

The VOC data are acceptable for use based on the information received.

SVOCs BY SW-846 METHOD 8270C

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Latest Date Analyzed
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	11/29/2012	11/29/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	11/29/2012	11/29/2012
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	11/29/2012	11/29/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

A method blank was analyzed with the SVOC analyses. The method blank was free of target compound contamination above the reporting limits.

4. Surrogate Results

The surrogate recoveries were within the laboratory-established QC limits.

5. LCS Results

The percent recoveries for the LCS results were within the laboratory-established QC limits.

Data Validation Report
Loewenthal Metals Site
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Laboratory Project #: 12110922

6. MS and MSD Results

A site-specific MS and MSD were not analyzed. For the MS and MSD that were analyzed using a sample from another site, the percent recoveries and RPDs were with QC limits.

7. Overall Assessment

The SVOC data are acceptable for use based on the information received.

PCBs BY U.S. EPA SW-846 METHOD 8082

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	11/30/2012	11/30/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	11/30/2012	11/30/2012
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	11/30/2012	11/30/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

A method blank was analyzed with the PCB analyses. The method blank was free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recoveries were within QC limits.

5. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

Data Validation Report
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STAT Analysis Corporation
Laboratory Project #: 12110922

6. MS and MSD Results

A site-specific MS and MSD were not analyzed. For the MS and MSD that were analyzed using a sample from another site, the percent recoveries and RPDs were within QC limits.

7. Overall Assessment

The PCB data are acceptable for use based on the information received.

PESTICIDES BY U.S. EPA SW-846 METHOD 8081

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	11/30/2012	11/30/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	11/30/2012	11/30/2012
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	11/30/2012	11/30/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

A method blank was analyzed with the pesticide analyses. The method blank was free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recoveries were within QC limits.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

5. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

6. MS and MSD Results

A site-specific MS and MSD were analyzed using sample LM-SB16-(24-36)-112712 for the spike. The percent recoveries and RPDs were within QC limits.

7. Overall Assessment

The pesticide data are acceptable for use based on the information received.

TOTAL METALS BY SW-846 METHODS 6020 AND 7471A

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
LM-SB03-(24-36)-112712	12110922-001	Soil	11/27/2012	11/30/2012 – 12/3/2012
LM-SB15-(12-24)-112712	12110922-002	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB16D-(12-24)-112712	12110922-003	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB03-(12-24)-112712	12110922-004	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB14-(6-12)-112712	12110922-005	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB23-(6-12)-112712	12110922-006	Soil	11/27/2012	12/3/2012 – 12/5/2012
LM-SB14-(12-24)-112712	12110922-007	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB17-(24-36)-112712	12110922-008	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB10-(24-36)-112712	12110922-009	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB17-(12-24)-112712	12110922-010	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB16-(0-6)-112712	12110922-011	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB01-(0-10)-112712	12110922-012	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB10-(24-36)-112712D	12110922-013	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB07-(6-12)-112712	12110922-014	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB07-(12-24)-112712	12110922-015	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB19-(12-24)-112712	12110922-016	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB23-(12-24)-112712	12110922-017	Soil	11/27/2012	12/3/2012 – 12/4/2012
LM-SB23-(12-24)-112712D	12110922-018	Soil	11/27/2012	12/4/2012
LM-Concrete-112712	12110922-019	Soil	11/27/2012	12/4/2012
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	12/4/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	11/30/2012 – 12/3/2012

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	12/4/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

3. Blank Results

Method blanks were analyzed with the metals analysis. The blanks were free of target analyte contamination above the reporting limits. Some metals were detected below the reporting limits in the method blanks. However, the sample concentrations were either non-detect or much greater than the blank concentrations and no qualifications were required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

5. MS and MSD Results

Site-specific MS and MSDs were analyzed. The percent recoveries and RPDs were within QC limits except for as follows.

In some instances, metals were not adequately recovered and the spike amount was more than four time lower than the sample concentration. In these cases, no qualification is required.

In the spike of sample LM-SB16-(24-36)-112712, the following metals were detected low: arsenic, cadmium, chromium, and selenium. The following metal was detected high: silver.

In the spike of sample LM-SB23-(6-12)-11212, the following metals were detected low: arsenic, cadmium, chromium, selenium, and silver.

In the spiked sample for those metals detected low, the quantitation limits for non-detects were flagged "UJ" and the detected results were flagged "J" as estimated due to potential matrix interference. In the spiked sample for those metals detected high, the detected results only were flagged "J" as estimated due to potential matrix interference.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

6. Field Duplicate Results

There are two field duplicates associated with this work order. The RPDs were calculated for detected metals.

For field duplicate LM-SB23-(12-24)-112712D , the RPDs were below with 50 with two exceptions. Mercury had an RPD of 162 and silver had an RPD of 150.

For field duplicate LM-SB10-(24-36)-112712D, three metals had high RPDs, exceeding a standard QC limit of 50 RPD or less. Specifically, mercury, arsenic, and lead had RPDs ranging from of 77 to 117.

These results indicate some heterogeneity associated with some metals in these samples.

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

TCLP METALS BY SW-846 METHODS 1311, 6020, AND 7470A

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	11/29/2012 – 12/3/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	11/29/2012 – 12/3/2012
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	11/29/2012 – 12/3/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

3. Blank Results

Method blanks were analyzed with the TCLP metals analysis. The blanks were free of target analyte contamination above the reporting limits. Some metals were detected below the reporting limits in the method blanks. However, the sample concentrations were either non-detect or much greater than the blank concentrations and no qualifications were required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits for target analytes.

5. MS and MSD Results

A site-specific MS and MSD were not analyzed. For the MS and MSD analyzed using a sample from another site, the percent recoveries and RPDs were within QC limits.

6. Overall Assessment

The TCLP metals data are acceptable for use based on the information received.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

GENERAL CHEMISTRY PARAMETERS (pH by SW-846 Method 9045C)

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
LM-SB03-(24-36)-112712	12110922-001	Soil	11/27/2012	11/29/2012
LM-SB15-(12-24)-112712	12110922-002	Soil	11/27/2012	11/29/2012
LM-SB16D-(12-24)-112712	12110922-003	Soil	11/27/2012	11/29/2012
LM-SB03-(12-24)-112712	12110922-004	Soil	11/27/2012	11/29/2012
LM-SB14-(6-12)-112712	12110922-005	Soil	11/27/2012	11/29/2012
LM-SB23-(6-12)-112712	12110922-006	Soil	11/27/2012	11/29/2012
LM-SB14-(12-24)-112712	12110922-007	Soil	11/27/2012	11/29/2012
LM-SB17-(24-36)-112712	12110922-008	Soil	11/27/2012	11/29/2012
LM-SB10-(24-36)-112712	12110922-009	Soil	11/27/2012	11/29/2012
LM-SB17-(12-24)-112712	12110922-010	Soil	11/27/2012	11/29/2012
LM-SB16-(0-6)-112712	12110922-011	Soil	11/27/2012	11/29/2012
LM-SB01-(0-10)-112712	12110922-012	Soil	11/27/2012	11/30/2012
LM-SB10-(24-36)-112712D	12110922-013	Soil	11/27/2012	11/30/2012
LM-SB07-(6-12)-112712	12110922-014	Soil	11/27/2012	11/30/2012
LM-SB07-(12-24)-112712	12110922-015	Soil	11/27/2012	11/30/2012
LM-SB19-(12-24)-112712	12110922-016	Soil	11/27/2012	11/30/2012
LM-SB23-(12-24)-112712	12110922-017	Soil	11/27/2012	11/30/2012
LM-SB23-(12-24)-112712D	12110922-018	Soil	11/27/2012	11/30/2012
LM-Concrete-112712	12110922-019	Soil	11/27/2012	11/30/2012
LM-SB14-(24-32)-112712	12110922-020	Soil	11/27/2012	11/30/2012
LM-SB16-(24-36)-112712	12110922-021	Soil	11/27/2012	11/30/2012
LM-SB05-(6-16)-112712	12110922-022	Soil	11/27/2012	11/30/2012

2. Holding Times

The holding times were acceptable.

3. Duplicate Results

A laboratory duplicate and field duplicate were analyzed. The RPDs were 0.125 and 1.41 which are within QC limits.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

4. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Loewenthal Metals Site
STAT Analysis Corporation
Laboratory Project #: 12110922

ATTACHMENT

**ACCUTEST LABORATORIES
RESULTS SUMMARY WITH QUALIFIERS**

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB03-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:35:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-001		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	1.8	0.21		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	11	1.2		mg/Kg-dry	10	11/30/2012
Barium	280	1.2		mg/Kg-dry	10	11/30/2012
Cadmium	11	0.6		mg/Kg-dry	10	11/30/2012
Chromium	14	1.2		mg/Kg-dry	10	11/30/2012
Copper	340	3		mg/Kg-dry	10	11/30/2012
Lead	3100	0.6		mg/Kg-dry	10	11/30/2012
Manganese	190	1.2		mg/Kg-dry	10	11/30/2012
Selenium	1.8	1.2		mg/Kg-dry	10	12/3/2012
Silver	ND	1.2		mg/Kg-dry	10	11/30/2012
Zinc	3900	60		mg/Kg-dry	100	12/5/2012
pH (25 °C)	SW9045C					
pH	8.5			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	7.6	0.2	*	wt%	1	11/29/2012

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter

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 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB15-(12-24)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:45:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	2	0.22		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	5.4	1.4		mg/Kg-dry	10	12/3/2012
Barium	660	1.4		mg/Kg-dry	10	12/3/2012
Cadmium	19	0.72		mg/Kg-dry	10	12/3/2012
Chromium	63	1.4		mg/Kg-dry	10	12/3/2012
Copper	6000	36		mg/Kg-dry	100	12/4/2012
Lead	13000	7.2		mg/Kg-dry	100	12/4/2012
Manganese	170	14		mg/Kg-dry	100	12/4/2012
Selenium	ND	1.4		mg/Kg-dry	10	12/3/2012
Silver	2.4	1.4		mg/Kg-dry	10	12/3/2012
Zinc	5500	72		mg/Kg-dry	100	12/4/2012
pH (25 °C)	SW9045C					
pH	7.9			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	23.3	0.2	*	wt%	1	11/29/2012

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16D-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 3:00:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-003		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	8.8	0.27		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	46	1.5		mg/Kg-dry	10	12/3/2012
Barium	1200	1.5		mg/Kg-dry	10	12/3/2012
Cadmium	47	0.77		mg/Kg-dry	10	12/3/2012
Chromium	51	1.5		mg/Kg-dry	10	12/3/2012
Copper	17000	190		mg/Kg-dry	500	12/4/2012
Lead	22000	39		mg/Kg-dry	500	12/4/2012
Manganese	520	77		mg/Kg-dry	500	12/4/2012
Selenium	5.1	1.5		mg/Kg-dry	10	12/3/2012
Silver	9.2	1.5		mg/Kg-dry	10	12/3/2012
Zinc	21000	390		mg/Kg-dry	500	12/4/2012
pH (25 °C)	SW9045C					
pH	7.8			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	31.0	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB03-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:35:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-004		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	10	2.2		mg/Kg-dry	100	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	16	1.2		mg/Kg-dry	10	12/3/2012
Barium	1200	1.2		mg/Kg-dry	10	12/3/2012
Cadmium	61	0.6		mg/Kg-dry	10	12/3/2012
Chromium	19	1.2		mg/Kg-dry	10	12/3/2012
Copper	7000	150		mg/Kg-dry	500	12/4/2012
Lead	23000	30		mg/Kg-dry	500	12/4/2012
Manganese	410	60		mg/Kg-dry	500	12/4/2012
Selenium	4.6	1.2		mg/Kg-dry	10	12/3/2012
Silver	2.8	1.2		mg/Kg-dry	10	12/3/2012
Zinc	37000	300		mg/Kg-dry	500	12/4/2012
pH (25 °C)	SW9045C					
pH	7.9			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	9.9	0.2	*	wt%	1	11/29/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(6-12)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-005		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.22	0.018		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	4.2	0.93		mg/Kg-dry	10	12/3/2012
Barium	970	0.93		mg/Kg-dry	10	12/3/2012
Cadmium	1.4	0.46		mg/Kg-dry	10	12/3/2012
Chromium	15	0.93		mg/Kg-dry	10	12/3/2012
Copper	93	2.3		mg/Kg-dry	10	12/4/2012
Lead	980	0.46		mg/Kg-dry	10	12/4/2012
Manganese	200	0.93		mg/Kg-dry	10	12/4/2012
Selenium	ND	0.93		mg/Kg-dry	10	12/3/2012
Silver	ND	0.93		mg/Kg-dry	10	12/3/2012
Zinc	780	4.6		mg/Kg-dry	10	12/4/2012
pH (25 °C)	SW9045C					
pH	8.6			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	8.6	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions

Client Sample ID: LM-SB23-(6-12)-112712

Lab Order: 12110922

Collection Date: 11/27/2012 10:25:00 AM

Project: Lowenthal Metals Chicago, IL

Matrix: Soil

Lab ID: 12110922-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	1.1	0.19		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	12 J	1.5		mg/Kg-dry	10	12/5/2012
Barium	1200	1.5		mg/Kg-dry	10	12/5/2012
Cadmium	17 J	0.75		mg/Kg-dry	10	12/5/2012
Chromium	29 J	1.5		mg/Kg-dry	10	12/5/2012
Copper	3200	37		mg/Kg-dry	100	12/5/2012
Lead	5700	0.75		mg/Kg-dry	10	12/5/2012
Manganese	290	1.5		mg/Kg-dry	10	12/5/2012
Selenium	2.1 J	1.5		mg/Kg-dry	10	12/5/2012
Silver	1.6 J	1.5		mg/Kg-dry	10	12/5/2012
Zinc	6200	75		mg/Kg-dry	100	12/5/2012
pH (25 °C)	SW9045C					
pH	8.3			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	11.4	0.2	*	wt%	1	11/29/2012

Qualifiers:

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- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

12/11/12

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-007		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.23	0.02		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	2.8	1.2		mg/Kg-dry	10	12/3/2012
Barium	1800	1.2		mg/Kg-dry	10	12/3/2012
Cadmium	4.4	0.61		mg/Kg-dry	10	12/3/2012
Chromium	28	1.2		mg/Kg-dry	10	12/3/2012
Copper	240	3		mg/Kg-dry	10	12/4/2012
Lead	3300	0.61		mg/Kg-dry	10	12/4/2012
Manganese	130	1.2		mg/Kg-dry	10	12/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	12/3/2012
Silver	ND	1.2		mg/Kg-dry	10	12/3/2012
Zinc	1000	6.1		mg/Kg-dry	10	12/4/2012
pH (25 °C)	SW9045C					
pH	8.2			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	11.5	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB17-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:30:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-008		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.067	0.022		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	25	1.4		mg/Kg-dry	10	12/3/2012
Barium	85	1.4		mg/Kg-dry	10	12/3/2012
Cadmium	9.6	0.69		mg/Kg-dry	10	12/3/2012
Chromium	13	1.4		mg/Kg-dry	10	12/3/2012
Copper	49	3.4		mg/Kg-dry	10	12/4/2012
Lead	110	0.69		mg/Kg-dry	10	12/4/2012
Manganese	130	1.4		mg/Kg-dry	10	12/4/2012
Selenium	3.2	1.4		mg/Kg-dry	10	12/3/2012
Silver	ND	1.4		mg/Kg-dry	10	12/3/2012
Zinc	1300	6.9		mg/Kg-dry	10	12/4/2012
pH (25 °C)			SW9045C			
pH	6.1			pH Units	1	11/29/2012
Percent Moisture			D2974			
Percent Moisture	21.3	0.2	*	wt%	1	11/29/2012

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB10-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 1:30:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-009		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	3.6	0.21		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	40	1.1		mg/Kg-dry	10	12/3/2012
Barium	240	1.1		mg/Kg-dry	10	12/3/2012
Cadmium	1.8	0.53		mg/Kg-dry	10	12/3/2012
Chromium	8.9	1.1		mg/Kg-dry	10	12/3/2012
Copper	680	53		mg/Kg-dry	200	12/4/2012
Lead	13000	11		mg/Kg-dry	200	12/4/2012
Manganese	230	21		mg/Kg-dry	200	12/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	12/3/2012
Silver	1.5	1.1		mg/Kg-dry	10	12/3/2012
Zinc	620	110		mg/Kg-dry	200	12/4/2012
pH (25 °C)	SW9045C					
pH	8.0			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	5.9	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB17-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:30:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-010		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.59	0.021		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	5.1	1.2		mg/Kg-dry	10	12/3/2012
Barium	78	1.2		mg/Kg-dry	10	12/3/2012
Cadmium	1.4	0.58		mg/Kg-dry	10	12/3/2012
Chromium	7.5	1.2		mg/Kg-dry	10	12/3/2012
Copper	150	5.8		mg/Kg-dry	20	12/4/2012
Lead	1600	1.2		mg/Kg-dry	20	12/4/2012
Manganese	320	2.3		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	12/3/2012
Silver	ND	1.2		mg/Kg-dry	10	12/3/2012
Zinc	1900	12		mg/Kg-dry	20	12/4/2012
pH (25 °C)			SW9045C			
pH	7.3			pH Units	1	11/29/2012
Percent Moisture			D2974			
Percent Moisture	15.8	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(0-6)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-011		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.25	0.021		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	4.6	1.1		mg/Kg-dry	10	12/3/2012
Barium	200	1.1		mg/Kg-dry	10	12/3/2012
Cadmium	2.3	0.55		mg/Kg-dry	10	12/3/2012
Chromium	13	1.1		mg/Kg-dry	10	12/3/2012
Copper	190	5.5		mg/Kg-dry	20	12/4/2012
Lead	610	1.1		mg/Kg-dry	20	12/4/2012
Manganese	410	2.2		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	12/3/2012
Silver	ND	1.1		mg/Kg-dry	10	12/3/2012
Zinc	860	11		mg/Kg-dry	20	12/4/2012
pH (25 °C)			SW9045C			
pH	8.3			pH Units	1	11/29/2012
Percent Moisture			D2974			
Percent Moisture	10.9	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB01-(0-10)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 11:15:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-012		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.38	0.024		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	4.9	1.3		mg/Kg-dry	10	12/3/2012
Barium	140	1.3		mg/Kg-dry	10	12/3/2012
Cadmium	5	0.63		mg/Kg-dry	10	12/3/2012
Chromium	7.8	1.3		mg/Kg-dry	10	12/3/2012
Copper	240	6.3		mg/Kg-dry	20	12/4/2012
Lead	1200	1.3		mg/Kg-dry	20	12/4/2012
Manganese	230	2.5		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.3		mg/Kg-dry	10	12/3/2012
Silver	ND	1.3		mg/Kg-dry	10	12/3/2012
Zinc	890	13		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	8.6			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	17.1	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
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 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB10-(24-36)-112712D
Lab Order:	12110922	Collection Date:	11/27/2012 1:30:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-013		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	1.6	0.21		mg/Kg-dry	10	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	10	1		mg/Kg-dry	10	12/3/2012
Barium	210	1		mg/Kg-dry	10	12/3/2012
Cadmium	1.8	0.5		mg/Kg-dry	10	12/3/2012
Chromium	11	1		mg/Kg-dry	10	12/3/2012
Copper	990	5		mg/Kg-dry	20	12/4/2012
Lead	3400	1		mg/Kg-dry	20	12/4/2012
Manganese	320	2		mg/Kg-dry	20	12/4/2012
Selenium	ND	1		mg/Kg-dry	10	12/3/2012
Silver	ND	1		mg/Kg-dry	10	12/3/2012
Zinc	930	10		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	7.6			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	5.8	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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 * - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB07-(6-12)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 11:20:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-014		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.46	0.022		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	5.2	1.1		mg/Kg-dry	10	12/3/2012
Barium	430	1.1		mg/Kg-dry	10	12/3/2012
Cadmium	4.5	0.54		mg/Kg-dry	10	12/3/2012
Chromium	20	1.1		mg/Kg-dry	10	12/3/2012
Copper	360	5.4		mg/Kg-dry	20	12/4/2012
Lead	2200	1.1		mg/Kg-dry	20	12/4/2012
Manganese	310	2.2		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	12/3/2012
Silver	ND	1.1		mg/Kg-dry	10	12/3/2012
Zinc	1600	11		mg/Kg-dry	20	12/4/2012
pH (25 °C)			SW9045C			
pH	8.5			pH Units	1	11/30/2012
Percent Moisture			D2974			
Percent Moisture	12.6	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB07-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:50:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-015		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.4	0.02		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	5.8	0.98		mg/Kg-dry	10	12/3/2012
Barium	210	0.98		mg/Kg-dry	10	12/3/2012
Cadmium	3.2	0.49		mg/Kg-dry	10	12/3/2012
Chromium	17	0.98		mg/Kg-dry	10	12/3/2012
Copper	450	4.9		mg/Kg-dry	20	12/4/2012
Lead	920	0.49		mg/Kg-dry	10	12/3/2012
Manganese	510	2		mg/Kg-dry	20	12/4/2012
Selenium	ND	0.98		mg/Kg-dry	10	12/3/2012
Silver	ND	0.98		mg/Kg-dry	10	12/3/2012
Zinc	1300	9.8		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	8.4			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	11.3	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB19-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 9:35:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-016		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.11	0.021		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	9	1.4		mg/Kg-dry	10	12/3/2012
Barium	69	1.4		mg/Kg-dry	10	12/3/2012
Cadmium	10	0.69		mg/Kg-dry	10	12/3/2012
Chromium	14	1.4		mg/Kg-dry	10	12/3/2012
Copper	89	6.9		mg/Kg-dry	20	12/4/2012
Lead	200	0.69		mg/Kg-dry	10	12/3/2012
Manganese	100	2.8		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.4		mg/Kg-dry	10	12/3/2012
Silver	ND	1.4		mg/Kg-dry	10	12/3/2012
Zinc	1400	14		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	7.8			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	20.1	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB23-(12-24)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:25:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	5.6	0.23		mg/Kg-dry	10	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	15	1.3		mg/Kg-dry	10	12/3/2012
Barium	440	1.3		mg/Kg-dry	10	12/3/2012
Cadmium	16	0.65		mg/Kg-dry	10	12/3/2012
Chromium	11	1.3		mg/Kg-dry	10	12/3/2012
Copper	1300	33		mg/Kg-dry	100	12/4/2012
Lead	3600	0.65		mg/Kg-dry	10	12/3/2012
Manganese	300	13		mg/Kg-dry	100	12/4/2012
Selenium	1.7	1.3		mg/Kg-dry	10	12/3/2012
Silver	12	1.3		mg/Kg-dry	10	12/3/2012
Zinc	9300	65		mg/Kg-dry	100	12/4/2012
pH (25 °C)	SW9045C					
pH	7.9			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	16.8	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB23-(12-24)-112712D
Lab Order:	12110922	Collection Date:	11/27/2012 10:25:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-018		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	53	2.3		mg/Kg-dry	100	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	20	1.2		mg/Kg-dry	10	12/4/2012
Barium	640	1.2		mg/Kg-dry	10	12/4/2012
Cadmium	26	0.62		mg/Kg-dry	10	12/4/2012
Chromium	12	1.2		mg/Kg-dry	10	12/4/2012
Copper	1900	31		mg/Kg-dry	100	12/4/2012
Lead	7900	6.2		mg/Kg-dry	100	12/4/2012
Manganese	400	1.2		mg/Kg-dry	10	12/4/2012
Selenium	2	1.2		mg/Kg-dry	10	12/4/2012
Silver	1.7	1.2		mg/Kg-dry	10	12/4/2012
Zinc	9500	62		mg/Kg-dry	100	12/4/2012
pH (25 °C)	SW9045C					
pH	7.8			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	18.0	0.2	*	wt%	1	11/29/2012

Qualifiers:

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- * - Non-accredited parameter

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 E - Value above quantitation range
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-Concrete-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:10:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-019		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.5	0.02		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	17	2		mg/Kg-dry	10	12/4/2012
Barium	130	2		mg/Kg-dry	10	12/4/2012
Cadmium	110	1		mg/Kg-dry	10	12/4/2012
Chromium	51	2		mg/Kg-dry	10	12/4/2012
Copper	320000	1000		mg/Kg-dry	2000	12/4/2012
Lead	24000	51		mg/Kg-dry	500	12/4/2012
Manganese	140	100		mg/Kg-dry	500	12/4/2012
Selenium	8.1	2		mg/Kg-dry	10	12/4/2012
Silver	62	2		mg/Kg-dry	10	12/4/2012
Zinc	58000	510		mg/Kg-dry	500	12/4/2012
pH (25 °C)	SW9045C					
pH	8.1			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	2.7	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
Aroclor 1016	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1221	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1232	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1242	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1248	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1254	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1260	ND	0.12		mg/Kg-dry	1	11/30/2012
Pesticides						
4,4'-DDD	ND	0.0024		mg/Kg-dry	1	11/30/2012
4,4'-DDE	ND	0.0024		mg/Kg-dry	1	11/30/2012
4,4'-DDT	ND	0.0024		mg/Kg-dry	1	11/30/2012
Aldrin	ND	0.0024		mg/Kg-dry	1	11/30/2012
alpha-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
alpha-Chlordane	ND	0.0024		mg/Kg-dry	1	11/30/2012
beta-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
Chlordane	ND	0.024		mg/Kg-dry	1	11/30/2012
delta-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
Dieldrin	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endosulfan I	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endosulfan II	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endosulfan sulfate	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endrin	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endrin aldehyde	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endrin ketone	ND	0.0024		mg/Kg-dry	1	11/30/2012
gamma-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
gamma-Chlordane	ND	0.0024		mg/Kg-dry	1	11/30/2012
Heptachlor	ND	0.0024		mg/Kg-dry	1	11/30/2012
Heptachlor epoxide	ND	0.0024		mg/Kg-dry	1	11/30/2012
Methoxychlor	ND	0.0024		mg/Kg-dry	1	11/30/2012
Toxaphene	ND	0.049		mg/Kg-dry	1	11/30/2012
TCLP Mercury						
Mercury	ND	0.0002		mg/L	1	12/3/2012
Mercury						
Mercury	1.6	0.26		mg/Kg-dry	10	12/4/2012
Metals by ICP/MS						
Arsenic	10	1.5		mg/Kg-dry	10	12/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
			SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
Barium	360	1.5		mg/Kg-dry	10	12/4/2012
Cadmium	25	0.77		mg/Kg-dry	10	12/4/2012
Chromium	50	1.5		mg/Kg-dry	10	12/4/2012
Copper	4500	39		mg/Kg-dry	100	12/4/2012
Lead	9700	7.7		mg/Kg-dry	100	12/4/2012
Manganese	610	1.5		mg/Kg-dry	10	12/4/2012
Selenium	ND	1.5		mg/Kg-dry	10	12/4/2012
Silver	2.9	1.5		mg/Kg-dry	10	12/4/2012
Zinc	12000	77		mg/Kg-dry	100	12/4/2012
TCLP Metals by ICP/MS						
			SW1311/6020 (SW3005A)		Prep Date: 11/29/2012	Analyst: JG
Arsenic	ND	0.01		mg/L	5	11/29/2012
Barium	0.85	0.5		mg/L	5	11/29/2012
Cadmium	0.35	0.005		mg/L	5	11/29/2012
Chromium	ND	0.01		mg/L	5	11/29/2012
Copper	2.3	0.1		mg/L	5	11/29/2012
Lead	16	0.005		mg/L	5	11/29/2012
Manganese	3.3	0.01		mg/L	5	11/29/2012
Selenium	ND	0.01		mg/L	5	11/29/2012
Silver	ND	0.01		mg/L	5	11/29/2012
Zinc	92	1		mg/L	100	11/30/2012
Semivolatile Organic Compounds by GC/MS						
			SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Acenaphthene	7.7	0.49		mg/Kg-dry	1	11/29/2012
Acenaphthylene	3.4	0.49		mg/Kg-dry	1	11/29/2012
Aniline	ND	4.9		mg/Kg-dry	1	11/29/2012
Anthracene	30	0.49		mg/Kg-dry	1	11/29/2012
Benz(a)anthracene	64	2.4		mg/Kg-dry	5	11/30/2012
Benzidine	ND	4.9		mg/Kg-dry	1	11/29/2012
Benzo(a)pyrene	56	0.49		mg/Kg-dry	1	11/29/2012
Benzo(b)fluoranthene	49	0.49		mg/Kg-dry	1	11/29/2012
Benzo(g,h,i)perylene	33	0.49		mg/Kg-dry	1	11/29/2012
Benzo(k)fluoranthene	43	0.49		mg/Kg-dry	1	11/29/2012
Benzoic acid	ND	12		mg/Kg-dry	1	11/29/2012
Benzyl alcohol	ND	2.5		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg-dry	1	11/29/2012
Bis(2-ethylhexyl)phthalate	ND	12		mg/Kg-dry	1	11/29/2012
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg-dry	1	11/29/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012**Client:** Weston Solutions**Client Sample ID:** LM-SB14-(24-32)-112712**Lab Order:** 12110922**Collection Date:** 11/27/2012 10:55:00 AM**Project:** Lowenthal Metals Chicago, IL**Matrix:** Soil**Lab ID:** 12110922-020

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Butyl benzyl phthalate	ND	2.5	mg/Kg-dry	1	11/29/2012
Carbazole	9.8	2.5	mg/Kg-dry	1	11/29/2012
4-Chloroaniline	ND	2.5	mg/Kg-dry	1	11/29/2012
4-Chloro-3-methylphenol	ND	4.9	mg/Kg-dry	1	11/29/2012
2-Chloronaphthalene	ND	2.5	mg/Kg-dry	1	11/29/2012
2-Chlorophenol	ND	2.5	mg/Kg-dry	1	11/29/2012
4-Chlorophenyl phenyl ether	ND	2.5	mg/Kg-dry	1	11/29/2012
Chrysene	66	2.4	mg/Kg-dry	5	11/30/2012
Dibenz(a,h)anthracene	17	0.49	mg/Kg-dry	1	11/29/2012
Dibenzofuran	5.3	2.5	mg/Kg-dry	1	11/29/2012
1,2-Dichlorobenzene	ND	2.5	mg/Kg-dry	1	11/29/2012
1,3-Dichlorobenzene	ND	2.5	mg/Kg-dry	1	11/29/2012
1,4-Dichlorobenzene	ND	2.5	mg/Kg-dry	1	11/29/2012
3,3'-Dichlorobenzidine	ND	2.5	mg/Kg-dry	1	11/29/2012
2,4-Dichlorophenol	ND	2.5	mg/Kg-dry	1	11/29/2012
Diethyl phthalate	ND	2.5	mg/Kg-dry	1	11/29/2012
2,4-Dimethylphenol	ND	2.5	mg/Kg-dry	1	11/29/2012
Dimethyl phthalate	ND	2.5	mg/Kg-dry	1	11/29/2012
4,6-Dinitro-2-methylphenol	ND	4.9	mg/Kg-dry	1	11/29/2012
2,4-Dinitrophenol	ND	12	mg/Kg-dry	1	11/29/2012
2,4-Dinitrotoluene	ND	0.49	mg/Kg-dry	1	11/29/2012
2,6-Dinitrotoluene	ND	0.49	mg/Kg-dry	1	11/29/2012
Di-n-butyl phthalate	ND	2.5	mg/Kg-dry	1	11/29/2012
Di-n-octyl phthalate	ND	2.5	mg/Kg-dry	1	11/29/2012
Fluoranthene	130	2.4	mg/Kg-dry	5	11/30/2012
Fluorene	11	0.49	mg/Kg-dry	1	11/29/2012
Hexachlorobenzene	ND	2.5	mg/Kg-dry	1	11/29/2012
Hexachlorobutadiene	ND	2.5	mg/Kg-dry	1	11/29/2012
Hexachlorocyclopentadiene	ND	2.5	mg/Kg-dry	1	11/29/2012
Hexachloroethane	ND	2.5	mg/Kg-dry	1	11/29/2012
Indeno(1,2,3-cd)pyrene	30	0.49	mg/Kg-dry	1	11/29/2012
Isophorone	ND	2.5	mg/Kg-dry	1	11/29/2012
2-Methylnaphthalene	3.8	2.5	mg/Kg-dry	1	11/29/2012
2-Methylphenol	ND	2.5	mg/Kg-dry	1	11/29/2012
4-Methylphenol	ND	2.5	mg/Kg-dry	1	11/29/2012
Naphthalene	4.2	0.49	mg/Kg-dry	1	11/29/2012
2-Nitroaniline	ND	2.5	mg/Kg-dry	1	11/29/2012
3-Nitroaniline	ND	2.5	mg/Kg-dry	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 11/29/2012	Analyst: DM		
4-Nitroaniline	ND	2.5	mg/Kg-dry	1	11/29/2012
2-Nitrophenol	ND	2.5	mg/Kg-dry	1	11/29/2012
4-Nitrophenol	ND	4.9	mg/Kg-dry	1	11/29/2012
Nitrobenzene	ND	0.49	mg/Kg-dry	1	11/29/2012
N-Nitrosodi-n-propylamine	ND	0.49	mg/Kg-dry	1	11/29/2012
N-Nitrosodimethylamine	ND	2.5	mg/Kg-dry	1	11/29/2012
N-Nitrosodiphenylamine	ND	0.49	mg/Kg-dry	1	11/29/2012
2, 2'-oxybis(1-Chloropropane)	ND	2.5	mg/Kg-dry	1	11/29/2012
Pentachlorophenol	ND	0.49	mg/Kg-dry	1	11/29/2012
Phenanthrene	120	2.4	mg/Kg-dry	5	11/30/2012
Phenol	ND	2.5	mg/Kg-dry	1	11/29/2012
Pyrene	120	2.4	mg/Kg-dry	5	11/30/2012
Pyridine	ND	9.9	mg/Kg-dry	1	11/29/2012
1,2,4-Trichlorobenzene	ND	2.5	mg/Kg-dry	1	11/29/2012
2,4,5-Trichlorophenol	ND	2.5	mg/Kg-dry	1	11/29/2012
2,4,6-Trichlorophenol	ND	2.5	mg/Kg-dry	1	11/29/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B	Prep Date: 11/27/2012	Analyst: ERP		
Acetone	ND	0.17	mg/Kg-dry	1	12/3/2012
Benzene	ND	0.012	mg/Kg-dry	1	12/3/2012
Bromodichloromethane	ND	0.012	mg/Kg-dry	1	12/3/2012
Bromoform	ND	0.012	mg/Kg-dry	1	12/3/2012
Bromomethane	ND	0.023	mg/Kg-dry	1	12/3/2012
2-Butanone	ND	0.17	mg/Kg-dry	1	12/3/2012
Carbon disulfide	ND	0.12	mg/Kg-dry	1	12/3/2012
Carbon tetrachloride	ND	0.012	mg/Kg-dry	1	12/3/2012
Chlorobenzene	ND	0.012	mg/Kg-dry	1	12/3/2012
Chloroethane	ND	0.023	mg/Kg-dry	1	12/3/2012
Chloroform	ND	0.012	mg/Kg-dry	1	12/3/2012
Chloromethane	ND	0.023	mg/Kg-dry	1	12/3/2012
Dibromochloromethane	ND	0.012	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethane	ND	0.012	mg/Kg-dry	1	12/3/2012
1,2-Dichloroethane	ND	0.012	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethene	ND	0.012	mg/Kg-dry	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.012	mg/Kg-dry	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.012	mg/Kg-dry	1	12/3/2012
1,2-Dichloropropane	ND	0.012	mg/Kg-dry	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0046	mg/Kg-dry	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0046	mg/Kg-dry	1	12/3/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
			SW5035/8260B		Prep Date: 11/27/2012	Analyst: ERP
Ethylbenzene	ND	0.012		mg/Kg-dry	1	12/3/2012
2-Hexanone	ND	0.046		mg/Kg-dry	1	12/3/2012
4-Methyl-2-pentanone	ND	0.046		mg/Kg-dry	1	12/3/2012
Methylene chloride	ND	0.023		mg/Kg-dry	1	12/3/2012
Methyl tert-butyl ether	ND	0.012		mg/Kg-dry	1	12/3/2012
Styrene	ND	0.012		mg/Kg-dry	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.012		mg/Kg-dry	1	12/3/2012
Tetrachloroethene	ND	0.012		mg/Kg-dry	1	12/3/2012
Toluene	ND	0.012		mg/Kg-dry	1	12/3/2012
1,1,1-Trichloroethane	0.022	0.012		mg/Kg-dry	1	12/3/2012
1,1,2-Trichloroethane	ND	0.012		mg/Kg-dry	1	12/3/2012
Trichloroethene	ND	0.012		mg/Kg-dry	1	12/3/2012
Vinyl chloride	ND	0.012		mg/Kg-dry	1	12/3/2012
Xylenes, Total	ND	0.035		mg/Kg-dry	1	12/3/2012
pH (25 °C)						
pH			SW9045C		Prep Date: 11/30/2012	Analyst: MNG
				pH Units	1	11/30/2012
Percent Moisture						
Percent Moisture			D2974		Prep Date: 11/28/2012	Analyst: RW
				*	wt%	11/29/2012

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
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- * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL30001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions
Lab Order: 12110922
Project: Lowenthal Metals Chicago, IL
Lab ID: 12110922-021

Client Sample ID: LM-SB16-(24-36)-112712
Collection Date: 11/27/2012 10:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
Aroclor 1016	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1221	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1232	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1242	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1248	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1254	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1260	ND	0.092		mg/Kg-dry	1	11/30/2012
Pesticides						
			SW8081 (SW3550B)		Prep Date: 11/30/2012	Analyst: PDL
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	11/30/2012
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	11/30/2012
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	11/30/2012
Aldrin	ND	0.0018		mg/Kg-dry	1	11/30/2012
alpha-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	11/30/2012
beta-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
Chlordane	ND	0.018		mg/Kg-dry	1	11/30/2012
delta-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
Dieldrin	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endosulfan I	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endosulfan II	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endrin	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endrin ketone	ND	0.0018		mg/Kg-dry	1	11/30/2012
gamma-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	11/30/2012
Heptachlor	ND	0.0018		mg/Kg-dry	1	11/30/2012
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	11/30/2012
Methoxychlor	ND	0.0018		mg/Kg-dry	1	11/30/2012
Toxaphene	ND	0.038		mg/Kg-dry	1	11/30/2012
TCLP Mercury						
Mercury			SW1311/7470A		Prep Date: 11/30/2012	Analyst: LB
	ND	0.0002		mg/L	1	12/3/2012
Mercury						
Mercury			SW7471A		Prep Date: 12/3/2012	Analyst: LB
	7.8	1.8		mg/Kg-dry	100	12/4/2012
Metals by ICP/MS						
Arsenic	15	J	SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
				mg/Kg-dry	10	11/30/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

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H - Holding time exceeded

ZB
12/11/12

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode J01202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions
Lab Order: 12110922
Project: Lowenthal Metals Chicago, IL
Lab ID: 12110922-021

Client Sample ID: LM-SB16-(24-36)-112712
Collection Date: 11/27/2012 10:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
			SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
Barium	230	1		mg/Kg-dry	10	11/30/2012
Cadmium	25	0.52	J	mg/Kg-dry	10	11/30/2012
Chromium	14	1	J	mg/Kg-dry	10	11/30/2012
Copper	2100	130		mg/Kg-dry	500	12/3/2012
Lead	7400	26		mg/Kg-dry	500	12/3/2012
Manganese	190	1		mg/Kg-dry	10	11/30/2012
Selenium	1.7	1	J	mg/Kg-dry	10	11/30/2012
Silver	1.7	1	J	mg/Kg-dry	10	11/30/2012
Zinc	14000	260		mg/Kg-dry	500	12/3/2012
TCLP Metals by ICP/MS						
			SW1311/6020 (SW3005A)		Prep Date: 11/29/2012	Analyst: JG
Arsenic	ND	0.01		mg/L	5	11/29/2012
Barium	ND	0.5		mg/L	5	11/29/2012
Cadmium	0.74	0.005		mg/L	5	11/29/2012
Chromium	ND	0.01		mg/L	5	11/29/2012
Copper	19	2		mg/L	100	11/30/2012
Lead	76	1		mg/L	1000	11/30/2012
Manganese	1.8	0.01		mg/L	5	11/29/2012
Selenium	ND	0.01		mg/L	5	11/29/2012
Silver	ND	0.01		mg/L	5	11/29/2012
Zinc	510	10		mg/L	1000	11/30/2012
Semivolatile Organic Compounds by GC/MS						
			SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Acenaphthene	2.4	0.038		mg/Kg-dry	1	11/29/2012
Acenaphthylene	0.87	0.038		mg/Kg-dry	1	11/29/2012
Aniline	ND	0.38		mg/Kg-dry	1	11/29/2012
Anthracene	5.3	0.19		mg/Kg-dry	5	11/30/2012
Benz(a)anthracene	13	0.19		mg/Kg-dry	5	11/30/2012
Benzidine	ND	0.38		mg/Kg-dry	1	11/29/2012
Benzo(a)pyrene	12	0.19		mg/Kg-dry	5	11/30/2012
Benzo(b)fluoranthene	11	0.19		mg/Kg-dry	5	11/30/2012
Benzo(g,h,i)perylene	6.5	0.19		mg/Kg-dry	5	11/30/2012
Benzo(k)fluoranthene	9.1	0.19		mg/Kg-dry	5	11/30/2012
Benzoic acid	ND	0.95		mg/Kg-dry	1	11/29/2012
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	11/29/2012
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	11/29/2012
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	11/29/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

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12/11/12

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB16-(24-36)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:40:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
		SW8270C (SW3550B)		Prep Date: 11/29/2012		Analyst: DM
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
Carbazole	2.8	0.19		mg/Kg-dry	1	11/29/2012
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	11/29/2012
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	11/29/2012
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	11/29/2012
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	11/29/2012
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	11/29/2012
Chrysene	14	0.19		mg/Kg-dry	5	11/30/2012
Dibenz(a,h)anthracene	3.5	0.038		mg/Kg-dry	1	11/29/2012
Dibenzofuran	1.4	0.19		mg/Kg-dry	1	11/29/2012
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	11/29/2012
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	11/29/2012
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	11/29/2012
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	11/29/2012
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	11/29/2012
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/29/2012
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/29/2012
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
Fluoranthene	13	0.19		mg/Kg-dry	5	12/3/2012
Fluorene	2.5	0.038		mg/Kg-dry	1	11/29/2012
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	11/29/2012
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	11/29/2012
Hexachloroethane	ND	0.19		mg/Kg-dry	1	11/29/2012
Indeno(1,2,3-cd)pyrene	5.8	0.19		mg/Kg-dry	5	11/30/2012
Isophorone	ND	0.19		mg/Kg-dry	1	11/29/2012
2-Methylnaphthalene	0.89	0.19		mg/Kg-dry	1	11/29/2012
2-Methylphenol	ND	0.19		mg/Kg-dry	1	11/29/2012
4-Methylphenol	ND	0.19		mg/Kg-dry	1	11/29/2012
Naphthalene	1.9	0.038		mg/Kg-dry	1	11/29/2012
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	11/29/2012
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	11/29/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB16-(24-36)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:40:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS **SW8270C (SW3550B)** Prep Date: **11/29/2012** Analyst: **DM**

4-Nitroaniline	ND	0.19	mg/Kg-dry	1	11/29/2012
2-Nitrophenol	ND	0.19	mg/Kg-dry	1	11/29/2012
4-Nitrophenol	ND	0.38	mg/Kg-dry	1	11/29/2012
Nitrobenzene	ND	0.038	mg/Kg-dry	1	11/29/2012
N-Nitrosodi-n-propylamine	ND	0.038	mg/Kg-dry	1	11/29/2012
N-Nitrosodimethylamine	ND	0.19	mg/Kg-dry	1	11/29/2012
N-Nitrosodiphenylamine	ND	0.038	mg/Kg-dry	1	11/29/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.19	mg/Kg-dry	1	11/29/2012
Pentachlorophenol	ND	0.038	mg/Kg-dry	1	11/29/2012
Phenanthrene	22	0.19	mg/Kg-dry	5	11/30/2012
Phenol	ND	0.19	mg/Kg-dry	1	11/29/2012
Pyrene	22	0.19	mg/Kg-dry	5	11/30/2012
Pyridine	ND	0.76	mg/Kg-dry	1	11/29/2012
1,2,4-Trichlorobenzene	ND	0.19	mg/Kg-dry	1	11/29/2012
2,4,5-Trichlorophenol	ND	0.19	mg/Kg-dry	1	11/29/2012
2,4,6-Trichlorophenol	ND	0.19	mg/Kg-dry	1	11/29/2012

Volatile Organic Compounds by GC/MS **SW5035/8260B** Prep Date: **11/27/2012** Analyst: **ERP**

Acetone	ND	0.086	mg/Kg-dry	1	12/3/2012
Benzene	ND	0.0057	mg/Kg-dry	1	12/3/2012
Bromodichloromethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
Bromoform	ND	0.0057	mg/Kg-dry	1	12/3/2012
Bromomethane	ND	0.011	mg/Kg-dry	1	12/3/2012
2-Butanone	ND	0.086	mg/Kg-dry	1	12/3/2012
Carbon disulfide	ND	0.057	mg/Kg-dry	1	12/3/2012
Carbon tetrachloride	ND	0.0057	mg/Kg-dry	1	12/3/2012
Chlorobenzene	ND	0.0057	mg/Kg-dry	1	12/3/2012
Chloroethane	ND	0.011	mg/Kg-dry	1	12/3/2012
Chloroform	ND	0.0057	mg/Kg-dry	1	12/3/2012
Chloromethane	ND	0.011	mg/Kg-dry	1	12/3/2012
Dibromochloromethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,2-Dichloroethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethene	ND	0.0057	mg/Kg-dry	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg-dry	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,2-Dichloropropane	ND	0.0057	mg/Kg-dry	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0023	mg/Kg-dry	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0023	mg/Kg-dry	1	12/3/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-021		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
			SW5035/8260B		Prep Date: 11/27/2012	Analyst: ERP
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/3/2012
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/3/2012
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/3/2012
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/3/2012
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/3/2012
Styrene	ND	0.0057		mg/Kg-dry	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/3/2012
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/3/2012
Toluene	ND	0.0057		mg/Kg-dry	1	12/3/2012
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/3/2012
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/3/2012
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/3/2012
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/3/2012
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/3/2012
pH (25 °C)						
pH			SW9045C		Prep Date: 11/30/2012	Analyst: MNG
				pH Units	1	11/30/2012
Percent Moisture						
Percent Moisture			D2974		Prep Date: 11/28/2012	Analyst: RW
	13.0	0.2	*	wt%	1	11/29/2012

Qualifiers:

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- * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB05-(6-16)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:25:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-022		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
Aroclor 1016	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1221	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1232	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1242	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1248	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1254	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1260	ND	0.093		mg/Kg-dry	1	11/30/2012
Pesticides						
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/30/2012
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/30/2012
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/30/2012
Aldrin	ND	0.0019		mg/Kg-dry	1	11/30/2012
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/30/2012
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
Chlordane	ND	0.019		mg/Kg-dry	1	11/30/2012
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endrin	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/30/2012
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/30/2012
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/30/2012
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/30/2012
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/30/2012
Toxaphene	ND	0.038		mg/Kg-dry	1	11/30/2012
TCLP Mercury						
Mercury						
	SW1311/7470A				Prep Date: 11/30/2012	Analyst: LB
	ND	0.0002		mg/L	1	12/3/2012
Mercury						
Mercury						
	SW7471A				Prep Date: 12/3/2012	Analyst: LB
	0.24	0.02		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS						
Arsenic						
	SW6020 (SW3050B)				Prep Date: 11/30/2012	Analyst: JG
	6.2	1		mg/Kg-dry	10	12/4/2012

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Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB05-(6-16)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:25:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-022		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
			SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
Barium	110	1		mg/Kg-dry	10	12/4/2012
Cadmium	7	0.52		mg/Kg-dry	10	12/4/2012
Chromium	8	1		mg/Kg-dry	10	12/4/2012
Copper	12000	130		mg/Kg-dry	500	12/4/2012
Lead	1100	0.52		mg/Kg-dry	10	12/4/2012
Manganese	150	1		mg/Kg-dry	10	12/4/2012
Selenium	1.3	1		mg/Kg-dry	10	12/4/2012
Silver	2.3	1		mg/Kg-dry	10	12/4/2012
Zinc	19000	260		mg/Kg-dry	500	12/4/2012
TCLP Metals by ICP/MS						
			SW1311/6020 (SW3005A)		Prep Date: 11/29/2012	Analyst: JG
Arsenic	0.011	0.01		mg/L	5	11/29/2012
Barium	ND	0.5		mg/L	5	11/29/2012
Cadmium	0.12	0.005		mg/L	5	11/29/2012
Chromium	ND	0.01		mg/L	5	11/29/2012
Copper	4	2		mg/L	100	11/30/2012
Lead	2.2	0.1		mg/L	100	11/30/2012
Manganese	1.2	0.01		mg/L	5	11/29/2012
Selenium	ND	0.01		mg/L	5	11/29/2012
Silver	ND	0.01		mg/L	5	11/29/2012
Zinc	120	1		mg/L	100	11/30/2012
Semivolatile Organic Compounds by GC/MS						
			SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Acenaphthene	ND	0.38		mg/Kg-dry	1	11/29/2012
Acenaphthylene	0.97	0.38		mg/Kg-dry	1	11/29/2012
Aniline	ND	3.8		mg/Kg-dry	1	11/29/2012
Anthracene	3.9	0.38		mg/Kg-dry	1	11/29/2012
Benz(a)anthracene	5.4	0.38		mg/Kg-dry	1	11/29/2012
Benzidine	ND	3.8		mg/Kg-dry	1	11/29/2012
Benzo(a)pyrene	20	0.38		mg/Kg-dry	1	11/29/2012
Benzo(b)fluoranthene	6.2	0.38		mg/Kg-dry	1	11/29/2012
Benzo(g,h,i)perylene	8.6	0.38		mg/Kg-dry	1	11/29/2012
Benzo(k)fluoranthene	4.1	0.38		mg/Kg-dry	1	11/29/2012
Benzoic acid	ND	9.5		mg/Kg-dry	1	11/29/2012
Benzyl alcohol	ND	1.9		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethoxy)methane	ND	1.9		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethyl)ether	ND	1.9		mg/Kg-dry	1	11/29/2012
Bis(2-ethylhexyl)phthalate	ND	9.5		mg/Kg-dry	1	11/29/2012
4-Bromophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	11/29/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012**Client:** Weston Solutions**Client Sample ID:** LM-SB05-(6-16)-112712**Lab Order:** 12110922**Collection Date:** 11/27/2012 2:25:00 PM**Project:** Lowenthal Metals Chicago, IL**Matrix:** Soil**Lab ID:** 12110922-022

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Butyl benzyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
Carbazole	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Chloroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Chloro-3-methylphenol	ND	3.8	mg/Kg-dry	1	11/29/2012
2-Chloronaphthalene	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Chlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Chlorophenyl phenyl ether	ND	1.9	mg/Kg-dry	1	11/29/2012
Chrysene	14	0.38	mg/Kg-dry	1	11/29/2012
Dibenz(a,h)anthracene	2.8	0.38	mg/Kg-dry	1	11/29/2012
Dibenzofuran	ND	1.9	mg/Kg-dry	1	11/29/2012
1,2-Dichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
1,3-Dichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
1,4-Dichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
3,3'-Dichlorobenzidine	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4-Dichlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Diethyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4-Dimethylphenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Dimethyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
4,6-Dinitro-2-methylphenol	ND	3.8	mg/Kg-dry	1	11/29/2012
2,4-Dinitrophenol	ND	9.5	mg/Kg-dry	1	11/29/2012
2,4-Dinitrotoluene	ND	0.38	mg/Kg-dry	1	11/29/2012
2,6-Dinitrotoluene	ND	0.38	mg/Kg-dry	1	11/29/2012
Di-n-butyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
Di-n-octyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
Fluoranthene	7.5	0.38	mg/Kg-dry	1	11/29/2012
Fluorene	ND	0.38	mg/Kg-dry	1	11/29/2012
Hexachlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
Hexachlorobutadiene	ND	1.9	mg/Kg-dry	1	11/29/2012
Hexachlorocyclopentadiene	ND	1.9	mg/Kg-dry	1	11/29/2012
Hexachloroethane	ND	1.9	mg/Kg-dry	1	11/29/2012
Indeno(1,2,3-cd)pyrene	3.6	0.38	mg/Kg-dry	1	11/29/2012
Isophorone	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Methylnaphthalene	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Methylphenol	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Methylphenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Naphthalene	ND	0.38	mg/Kg-dry	1	11/29/2012
2-Nitroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012
3-Nitroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions**Client Sample ID:** LM-SB05-(6-16)-112712**Lab Order:** 12110922**Collection Date:** 11/27/2012 2:25:00 PM**Project:** Lowenthal Metals Chicago, IL**Matrix:** Soil**Lab ID:** 12110922-022

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS **SW8270C (SW3550B)** Prep Date: **11/29/2012** Analyst: **DM**

4-Nitroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Nitrophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Nitrophenol	ND	3.8	mg/Kg-dry	1	11/29/2012
Nitrobenzene	ND	0.38	mg/Kg-dry	1	11/29/2012
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg-dry	1	11/29/2012
N-Nitrosodimethylamine	ND	1.9	mg/Kg-dry	1	11/29/2012
N-Nitrosodiphenylamine	ND	0.38	mg/Kg-dry	1	11/29/2012
2, 2'-oxybis(1-Chloropropane)	ND	1.9	mg/Kg-dry	1	11/29/2012
Pentachlorophenol	ND	0.38	mg/Kg-dry	1	11/29/2012
Phanthrene	5.8	0.38	mg/Kg-dry	1	11/29/2012
Phenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Pyrene	49	1.9	mg/Kg-dry	5	11/30/2012
Pyridine	ND	7.7	mg/Kg-dry	1	11/29/2012
1,2,4-Trichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4,5-Trichlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4,6-Trichlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012

Volatile Organic Compounds by GC/MS **SW5035/8260B** Prep Date: **11/27/2012** Analyst: **ERP**

Acetone	ND	0.099	mg/Kg-dry	1	12/3/2012
Benzene	ND	0.0066	mg/Kg-dry	1	12/3/2012
Bromodichloromethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
Bromoform	ND	0.0066	mg/Kg-dry	1	12/3/2012
Bromomethane	ND	0.013	mg/Kg-dry	1	12/3/2012
2-Butanone	ND	0.099	mg/Kg-dry	1	12/3/2012
Carbon disulfide	ND	0.066	mg/Kg-dry	1	12/3/2012
Carbon tetrachloride	ND	0.0066	mg/Kg-dry	1	12/3/2012
Chlorobenzene	ND	0.0066	mg/Kg-dry	1	12/3/2012
Chloroethane	ND	0.013	mg/Kg-dry	1	12/3/2012
Chloroform	ND	0.0066	mg/Kg-dry	1	12/3/2012
Chloromethane	ND	0.013	mg/Kg-dry	1	12/3/2012
Dibromochloromethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,2-Dichloroethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethene	ND	0.0066	mg/Kg-dry	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.0066	mg/Kg-dry	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,2-Dichloropropane	ND	0.0066	mg/Kg-dry	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0026	mg/Kg-dry	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0026	mg/Kg-dry	1	12/3/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB05-(6-16)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:25:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-022		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
			SW5035/8260B		Prep Date: 11/27/2012	Analyst: ERP
Ethylbenzene	ND	0.0066		mg/Kg-dry	1	12/3/2012
2-Hexanone	ND	0.026		mg/Kg-dry	1	12/3/2012
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	12/3/2012
Methylene chloride	ND	0.013		mg/Kg-dry	1	12/3/2012
Methyl tert-butyl ether	ND	0.0066		mg/Kg-dry	1	12/3/2012
Styrene	ND	0.0066		mg/Kg-dry	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.0066		mg/Kg-dry	1	12/3/2012
Tetrachloroethene	ND	0.0066		mg/Kg-dry	1	12/3/2012
Toluene	ND	0.0066		mg/Kg-dry	1	12/3/2012
1,1,1-Trichloroethane	ND	0.0066		mg/Kg-dry	1	12/3/2012
1,1,2-Trichloroethane	ND	0.0066		mg/Kg-dry	1	12/3/2012
Trichloroethene	ND	0.0066		mg/Kg-dry	1	12/3/2012
Vinyl chloride	ND	0.0066		mg/Kg-dry	1	12/3/2012
Xylenes, Total	ND	0.02		mg/Kg-dry	1	12/3/2012
pH (25 °C)						
pH			SW9045C		Prep Date: 11/30/2012	Analyst: MNG
				pH Units	1	11/30/2012
Percent Moisture						
Percent Moisture			D2974		Prep Date: 11/28/2012	Analyst: RW
	14.3	0.2	*	wt%	1	11/29/2012

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions**Client Sample ID:** LM-SB05-(6-16)-112712D**Lab Order:** 12110922**Collection Date:** 11/27/2012 2:25:00 PM**Project:** Lowenthal Metals Chicago, IL**Matrix:** Soil**Lab ID:** 12110922-023

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 11/27/2012		Analyst: ERP
Acetone	0.098	0.077		mg/Kg	1	12/3/2012
Benzene	ND	0.0051		mg/Kg	1	12/3/2012
Bromodichloromethane	ND	0.0051		mg/Kg	1	12/3/2012
Bromoform	ND	0.0051		mg/Kg	1	12/3/2012
Bromomethane	ND	0.01		mg/Kg	1	12/3/2012
2-Butanone	ND	0.077		mg/Kg	1	12/3/2012
Carbon disulfide	ND	0.051		mg/Kg	1	12/3/2012
Carbon tetrachloride	ND	0.0051		mg/Kg	1	12/3/2012
Chlorobenzene	ND	0.0051		mg/Kg	1	12/3/2012
Chloroethane	ND	0.01		mg/Kg	1	12/3/2012
Chloroform	ND	0.0051		mg/Kg	1	12/3/2012
Chloromethane	ND	0.01		mg/Kg	1	12/3/2012
Dibromochloromethane	ND	0.0051		mg/Kg	1	12/3/2012
1,1-Dichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
1,2-Dichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
1,1-Dichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
1,2-Dichloropropane	ND	0.0051		mg/Kg	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg	1	12/3/2012
Ethylbenzene	ND	0.0051		mg/Kg	1	12/3/2012
2-Hexanone	ND	0.021		mg/Kg	1	12/3/2012
4-Methyl-2-pentanone	ND	0.021		mg/Kg	1	12/3/2012
Methylene chloride	ND	0.01		mg/Kg	1	12/3/2012
Methyl tert-butyl ether	ND	0.0051		mg/Kg	1	12/3/2012
Styrene	ND	0.0051		mg/Kg	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg	1	12/3/2012
Tetrachloroethene	ND	0.0051		mg/Kg	1	12/3/2012
Toluene	ND	0.0051		mg/Kg	1	12/3/2012
1,1,1-Trichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
1,1,2-Trichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
Trichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
Vinyl chloride	ND	0.0051		mg/Kg	1	12/3/2012
Xylenes, Total	ND	0.015		mg/Kg	1	12/3/2012

Qualifiers: ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

December 10, 2012

Weston Solutions
750 E. Bunker Court
Suite 500
Vernon Hills, IL 60061
Telephone: (847) 918-4094
Fax: (847) 918-4055

RE: Lowenthal Metals Chicago, IL

STAT Project No: 12110922

Dear Tonya Balla:

STAT Analysis received 23 samples for the referenced project on 11/27/2012 5:42:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

STAT Analysis Corporation

Date: December 10, 2012

Client: Weston Solutions
Project: Lowenthal Metals Chicago, IL
Lab Order: 12110922

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
12110922-001A	LM-SB03-(24-36)-112712		11/27/2012 2:35:00 PM	11/27/2012
12110922-002A	LM-SB15-(12-24)-112712		11/27/2012 10:45:00 AM	11/27/2012
12110922-003A	LM-SB16D-(12-24)-112712		11/27/2012 3:00:00 PM	11/27/2012
12110922-004A	LM-SB03-(12-24)-112712		11/27/2012 2:35:00 PM	11/27/2012
12110922-005A	LM-SB14-(6-12)-112712		11/27/2012 10:55:00 AM	11/27/2012
12110922-006A	LM-SB23-(6-12)-112712		11/27/2012 10:25:00 AM	11/27/2012
12110922-007A	LM-SB14-(12-24)-112712		11/27/2012 10:55:00 AM	11/27/2012
12110922-008A	LM-SB17-(24-36)-112712		11/27/2012 10:30:00 AM	11/27/2012
12110922-009A	LM-SB10-(24-36)-112712		11/27/2012 1:30:00 PM	11/27/2012
12110922-010A	LM-SB17-(12-24)-112712		11/27/2012 10:30:00 AM	11/27/2012
12110922-011A	LM-SB16-(0-6)-112712		11/27/2012 10:40:00 AM	11/27/2012
12110922-012A	LM-SB01-(0-10)-112712		11/27/2012 11:15:00 AM	11/27/2012
12110922-013A	LM-SB10-(24-36)-112712D		11/27/2012 1:30:00 PM	11/27/2012
12110922-014A	LM-SB07-(6-12)-112712		11/27/2012 11:20:00 AM	11/27/2012
12110922-015A	LM-SB07-(12-24)-112712		11/27/2012 2:50:00 PM	11/27/2012
12110922-016A	LM-SB19-(12-24)-112712		11/27/2012 9:35:00 AM	11/27/2012
12110922-017A	LM-SB23-(12-24)-112712		11/27/2012 10:25:00 AM	11/27/2012
12110922-018A	LM-SB23-(12-24)-112712D		11/27/2012 10:25:00 AM	11/27/2012
12110922-019A	LM-Concrete-112712		11/27/2012 2:10:00 PM	11/27/2012
12110922-020A	LM-SB14-(24-32)-112712		11/27/2012 10:55:00 AM	11/27/2012
12110922-020B	LM-SB14-(24-32)-112712		11/27/2012 10:55:00 AM	11/27/2012
12110922-021A	LM-SB16-(24-36)-112712		11/27/2012 10:40:00 AM	11/27/2012
12110922-021B	LM-SB16-(24-36)-112712		11/27/2012 10:40:00 AM	11/27/2012
12110922-022A	LM-SB05-(6-16)-112712		11/27/2012 2:25:00 PM	11/27/2012
12110922-022B	LM-SB05-(6-16)-112712		11/27/2012 2:25:00 PM	11/27/2012
12110922-023A	LM-SB05-(6-16)-112712D		11/27/2012 2:25:00 PM	11/27/2012

CLIENT: Weston Solutions
Project: Lowenthal Metals Chicago, IL
Lab Order: 12110922

CASE NARRATIVE

The mercury Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample LM-SB10-(24-36)-112712 (12110922-009) had recovery outside control limits. The sample concentration is greater than four times the spike level used.

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample LM-SB23-(6-12)-112712 (12110922-006) (Prep Batch 66385) had recoveries outside control limits. The sample, MS and MSD were redigested in batch 66455. Results are still outside control limits and reported from batch 66455

The metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample LM-SB23-(6-12)-112712 (12110922-006) had Chromium recovery outside control limits (126% (MS) recovery, QC limits 75-125%). The MS/MSD had recovery of other analytes outside of control limits, however the analyte concentration in the sample was greater than four times the spiking level for those elements.

The metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample LM-SB16-(24-36)-112712 (12110922-021) had the following outside control limits:

Arsenic: 73%/53% (MS/MSD) recovery (QC limits 75-125%)

Cadmium: 50% (MSD) recovery (QC limits 75-125%), 29% RPD, QC limit < 20%)

Chromium: 74%/49% (MS/MSD) recovery (QC limits 75-125%), 22% RPD, QC limit < 20%)

Selenium: 67%/57% (MS/MSD) recovery (QC limits 75-125%)

Silver: 295% (MS) recovery (QC limits 75-125%), 104% RPD, QC limit < 20%)

The MS/MSD had recovery of other analytes outside of control limits, however the analyte concentration in the sample was greater than four times the spike level for those elements.

The metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample LM-SB16-(24-36)-112712 (12110922-021) had relative percent difference(RPD) outside of control limits for the following elements:

Barium: 21% RPD, (QC limits < 20%)

Lead: 51% RPD, (QC limits < 20%)

Copper: 107% RPD, (QC limits < 20%)

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB03-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:35:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-001		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	1.8	0.21		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	11	1.2		mg/Kg-dry	10	11/30/2012
Barium	280	1.2		mg/Kg-dry	10	11/30/2012
Cadmium	11	0.6		mg/Kg-dry	10	11/30/2012
Chromium	14	1.2		mg/Kg-dry	10	11/30/2012
Copper	340	3		mg/Kg-dry	10	11/30/2012
Lead	3100	0.6		mg/Kg-dry	10	11/30/2012
Manganese	190	1.2		mg/Kg-dry	10	11/30/2012
Selenium	1.8	1.2		mg/Kg-dry	10	12/3/2012
Silver	ND	1.2		mg/Kg-dry	10	11/30/2012
Zinc	3900	60		mg/Kg-dry	100	12/5/2012
pH (25 °C)	SW9045C					
pH	8.5			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	7.6	0.2	*	wt%	1	11/29/2012

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB15-(12-24)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:45:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	2	0.22		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	5.4	1.4		mg/Kg-dry	10	12/3/2012
Barium	660	1.4		mg/Kg-dry	10	12/3/2012
Cadmium	19	0.72		mg/Kg-dry	10	12/3/2012
Chromium	63	1.4		mg/Kg-dry	10	12/3/2012
Copper	6000	36		mg/Kg-dry	100	12/4/2012
Lead	13000	7.2		mg/Kg-dry	100	12/4/2012
Manganese	170	14		mg/Kg-dry	100	12/4/2012
Selenium	ND	1.4		mg/Kg-dry	10	12/3/2012
Silver	2.4	1.4		mg/Kg-dry	10	12/3/2012
Zinc	5500	72		mg/Kg-dry	100	12/4/2012
pH (25 °C)	SW9045C					
pH	7.9			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	23.3	0.2	*	wt%	1	11/29/2012

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16D-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 3:00:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-003		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	8.8	0.27		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	46	1.5		mg/Kg-dry	10	12/3/2012
Barium	1200	1.5		mg/Kg-dry	10	12/3/2012
Cadmium	47	0.77		mg/Kg-dry	10	12/3/2012
Chromium	51	1.5		mg/Kg-dry	10	12/3/2012
Copper	17000	190		mg/Kg-dry	500	12/4/2012
Lead	22000	39		mg/Kg-dry	500	12/4/2012
Manganese	520	77		mg/Kg-dry	500	12/4/2012
Selenium	5.1	1.5		mg/Kg-dry	10	12/3/2012
Silver	9.2	1.5		mg/Kg-dry	10	12/3/2012
Zinc	21000	390		mg/Kg-dry	500	12/4/2012
pH (25 °C)	SW9045C					
pH	7.8			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	31.0	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB03-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:35:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-004		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	10	2.2		mg/Kg-dry	100	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	16	1.2		mg/Kg-dry	10	12/3/2012
Barium	1200	1.2		mg/Kg-dry	10	12/3/2012
Cadmium	61	0.6		mg/Kg-dry	10	12/3/2012
Chromium	19	1.2		mg/Kg-dry	10	12/3/2012
Copper	7000	150		mg/Kg-dry	500	12/4/2012
Lead	23000	30		mg/Kg-dry	500	12/4/2012
Manganese	410	60		mg/Kg-dry	500	12/4/2012
Selenium	4.6	1.2		mg/Kg-dry	10	12/3/2012
Silver	2.8	1.2		mg/Kg-dry	10	12/3/2012
Zinc	37000	300		mg/Kg-dry	500	12/4/2012
pH (25 °C)	SW9045C					
pH	7.9			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	9.9	0.2	*	wt%	1	11/29/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(6-12)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-005		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.22	0.018		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	4.2	0.93		mg/Kg-dry	10	12/3/2012
Barium	970	0.93		mg/Kg-dry	10	12/3/2012
Cadmium	1.4	0.46		mg/Kg-dry	10	12/3/2012
Chromium	15	0.93		mg/Kg-dry	10	12/3/2012
Copper	93	2.3		mg/Kg-dry	10	12/4/2012
Lead	980	0.46		mg/Kg-dry	10	12/4/2012
Manganese	200	0.93		mg/Kg-dry	10	12/4/2012
Selenium	ND	0.93		mg/Kg-dry	10	12/3/2012
Silver	ND	0.93		mg/Kg-dry	10	12/3/2012
Zinc	780	4.6		mg/Kg-dry	10	12/4/2012
pH (25 °C)	SW9045C					
pH	8.6			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	8.6	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB23-(6-12)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:25:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-006		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	1.1	0.19		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	12	1.5		mg/Kg-dry	10	12/5/2012
Barium	1200	1.5		mg/Kg-dry	10	12/5/2012
Cadmium	17	0.75		mg/Kg-dry	10	12/5/2012
Chromium	29	1.5		mg/Kg-dry	10	12/5/2012
Copper	3200	37		mg/Kg-dry	100	12/5/2012
Lead	5700	0.75		mg/Kg-dry	10	12/5/2012
Manganese	290	1.5		mg/Kg-dry	10	12/5/2012
Selenium	2.1	1.5		mg/Kg-dry	10	12/5/2012
Silver	1.6	1.5		mg/Kg-dry	10	12/5/2012
Zinc	6200	75		mg/Kg-dry	100	12/5/2012
pH (25 °C)	SW9045C					
pH	8.3			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	11.4	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-007		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.23	0.02		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	2.8	1.2		mg/Kg-dry	10	12/3/2012
Barium	1800	1.2		mg/Kg-dry	10	12/3/2012
Cadmium	4.4	0.61		mg/Kg-dry	10	12/3/2012
Chromium	28	1.2		mg/Kg-dry	10	12/3/2012
Copper	240	3		mg/Kg-dry	10	12/4/2012
Lead	3300	0.61		mg/Kg-dry	10	12/4/2012
Manganese	130	1.2		mg/Kg-dry	10	12/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	12/3/2012
Silver	ND	1.2		mg/Kg-dry	10	12/3/2012
Zinc	1000	6.1		mg/Kg-dry	10	12/4/2012
pH (25 °C)	SW9045C					
pH	8.2			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	11.5	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB17-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:30:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-008		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.067	0.022		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	25	1.4		mg/Kg-dry	10	12/3/2012
Barium	85	1.4		mg/Kg-dry	10	12/3/2012
Cadmium	9.6	0.69		mg/Kg-dry	10	12/3/2012
Chromium	13	1.4		mg/Kg-dry	10	12/3/2012
Copper	49	3.4		mg/Kg-dry	10	12/4/2012
Lead	110	0.69		mg/Kg-dry	10	12/4/2012
Manganese	130	1.4		mg/Kg-dry	10	12/4/2012
Selenium	3.2	1.4		mg/Kg-dry	10	12/3/2012
Silver	ND	1.4		mg/Kg-dry	10	12/3/2012
Zinc	1300	6.9		mg/Kg-dry	10	12/4/2012
pH (25 °C)			SW9045C			
pH	6.1			pH Units	1	11/29/2012
Percent Moisture			D2974			
Percent Moisture	21.3	0.2	*	wt%	1	11/29/2012

Qualifiers:

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- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter

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 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB10-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 1:30:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-009		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	3.6	0.21		mg/Kg-dry	10	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	40	1.1		mg/Kg-dry	10	12/3/2012
Barium	240	1.1		mg/Kg-dry	10	12/3/2012
Cadmium	1.8	0.53		mg/Kg-dry	10	12/3/2012
Chromium	8.9	1.1		mg/Kg-dry	10	12/3/2012
Copper	680	53		mg/Kg-dry	200	12/4/2012
Lead	13000	11		mg/Kg-dry	200	12/4/2012
Manganese	230	21		mg/Kg-dry	200	12/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	12/3/2012
Silver	1.5	1.1		mg/Kg-dry	10	12/3/2012
Zinc	620	110		mg/Kg-dry	200	12/4/2012
pH (25 °C)	SW9045C					
pH	8.0			pH Units	1	11/29/2012
Percent Moisture	D2974					
Percent Moisture	5.9	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB17-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:30:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-010		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.59	0.021		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	5.1	1.2		mg/Kg-dry	10	12/3/2012
Barium	78	1.2		mg/Kg-dry	10	12/3/2012
Cadmium	1.4	0.58		mg/Kg-dry	10	12/3/2012
Chromium	7.5	1.2		mg/Kg-dry	10	12/3/2012
Copper	150	5.8		mg/Kg-dry	20	12/4/2012
Lead	1600	1.2		mg/Kg-dry	20	12/4/2012
Manganese	320	2.3		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	12/3/2012
Silver	ND	1.2		mg/Kg-dry	10	12/3/2012
Zinc	1900	12		mg/Kg-dry	20	12/4/2012
pH (25 °C)			SW9045C			
pH	7.3			pH Units	1	11/29/2012
Percent Moisture			D2974			
Percent Moisture	15.8	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(0-6)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-011		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.25	0.021		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	4.6	1.1		mg/Kg-dry	10	12/3/2012
Barium	200	1.1		mg/Kg-dry	10	12/3/2012
Cadmium	2.3	0.55		mg/Kg-dry	10	12/3/2012
Chromium	13	1.1		mg/Kg-dry	10	12/3/2012
Copper	190	5.5		mg/Kg-dry	20	12/4/2012
Lead	610	1.1		mg/Kg-dry	20	12/4/2012
Manganese	410	2.2		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	12/3/2012
Silver	ND	1.1		mg/Kg-dry	10	12/3/2012
Zinc	860	11		mg/Kg-dry	20	12/4/2012
pH (25 °C)			SW9045C			
pH	8.3			pH Units	1	11/29/2012
Percent Moisture			D2974			
Percent Moisture	10.9	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB01-(0-10)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 11:15:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-012		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.38	0.024		mg/Kg-dry	1	12/3/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	4.9	1.3		mg/Kg-dry	10	12/3/2012
Barium	140	1.3		mg/Kg-dry	10	12/3/2012
Cadmium	5	0.63		mg/Kg-dry	10	12/3/2012
Chromium	7.8	1.3		mg/Kg-dry	10	12/3/2012
Copper	240	6.3		mg/Kg-dry	20	12/4/2012
Lead	1200	1.3		mg/Kg-dry	20	12/4/2012
Manganese	230	2.5		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.3		mg/Kg-dry	10	12/3/2012
Silver	ND	1.3		mg/Kg-dry	10	12/3/2012
Zinc	890	13		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	8.6			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	17.1	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB10-(24-36)-112712D
Lab Order:	12110922	Collection Date:	11/27/2012 1:30:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-013		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	1.6	0.21		mg/Kg-dry	10	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	10	1		mg/Kg-dry	10	12/3/2012
Barium	210	1		mg/Kg-dry	10	12/3/2012
Cadmium	1.8	0.5		mg/Kg-dry	10	12/3/2012
Chromium	11	1		mg/Kg-dry	10	12/3/2012
Copper	990	5		mg/Kg-dry	20	12/4/2012
Lead	3400	1		mg/Kg-dry	20	12/4/2012
Manganese	320	2		mg/Kg-dry	20	12/4/2012
Selenium	ND	1		mg/Kg-dry	10	12/3/2012
Silver	ND	1		mg/Kg-dry	10	12/3/2012
Zinc	930	10		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	7.6			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	5.8	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB07-(6-12)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 11:20:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-014		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.46	0.022		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Arsenic	5.2	1.1		mg/Kg-dry	10	12/3/2012
Barium	430	1.1		mg/Kg-dry	10	12/3/2012
Cadmium	4.5	0.54		mg/Kg-dry	10	12/3/2012
Chromium	20	1.1		mg/Kg-dry	10	12/3/2012
Copper	360	5.4		mg/Kg-dry	20	12/4/2012
Lead	2200	1.1		mg/Kg-dry	20	12/4/2012
Manganese	310	2.2		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	12/3/2012
Silver	ND	1.1		mg/Kg-dry	10	12/3/2012
Zinc	1600	11		mg/Kg-dry	20	12/4/2012
pH (25 °C)			SW9045C			
pH	8.5			pH Units	1	11/30/2012
Percent Moisture			D2974			
Percent Moisture	12.6	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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 R - RPD outside accepted recovery limits
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Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB07-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:50:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-015		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.4	0.02		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	5.8	0.98		mg/Kg-dry	10	12/3/2012
Barium	210	0.98		mg/Kg-dry	10	12/3/2012
Cadmium	3.2	0.49		mg/Kg-dry	10	12/3/2012
Chromium	17	0.98		mg/Kg-dry	10	12/3/2012
Copper	450	4.9		mg/Kg-dry	20	12/4/2012
Lead	920	0.49		mg/Kg-dry	10	12/3/2012
Manganese	510	2		mg/Kg-dry	20	12/4/2012
Selenium	ND	0.98		mg/Kg-dry	10	12/3/2012
Silver	ND	0.98		mg/Kg-dry	10	12/3/2012
Zinc	1300	9.8		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	8.4			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	11.3	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB19-(12-24)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 9:35:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-016		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.11	0.021		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	9	1.4		mg/Kg-dry	10	12/3/2012
Barium	69	1.4		mg/Kg-dry	10	12/3/2012
Cadmium	10	0.69		mg/Kg-dry	10	12/3/2012
Chromium	14	1.4		mg/Kg-dry	10	12/3/2012
Copper	89	6.9		mg/Kg-dry	20	12/4/2012
Lead	200	0.69		mg/Kg-dry	10	12/3/2012
Manganese	100	2.8		mg/Kg-dry	20	12/4/2012
Selenium	ND	1.4		mg/Kg-dry	10	12/3/2012
Silver	ND	1.4		mg/Kg-dry	10	12/3/2012
Zinc	1400	14		mg/Kg-dry	20	12/4/2012
pH (25 °C)	SW9045C					
pH	7.8			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	20.1	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB23-(12-24)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:25:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	5.6	0.23		mg/Kg-dry	10	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	15	1.3		mg/Kg-dry	10	12/3/2012
Barium	440	1.3		mg/Kg-dry	10	12/3/2012
Cadmium	16	0.65		mg/Kg-dry	10	12/3/2012
Chromium	11	1.3		mg/Kg-dry	10	12/3/2012
Copper	1300	33		mg/Kg-dry	100	12/4/2012
Lead	3600	0.65		mg/Kg-dry	10	12/3/2012
Manganese	300	13		mg/Kg-dry	100	12/4/2012
Selenium	1.7	1.3		mg/Kg-dry	10	12/3/2012
Silver	12	1.3		mg/Kg-dry	10	12/3/2012
Zinc	9300	65		mg/Kg-dry	100	12/4/2012
pH (25 °C)	SW9045C					
pH	7.9			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	16.8	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB23-(12-24)-112712D
Lab Order:	12110922	Collection Date:	11/27/2012 10:25:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-018		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	53	2.3		mg/Kg-dry	100	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	20	1.2		mg/Kg-dry	10	12/4/2012
Barium	640	1.2		mg/Kg-dry	10	12/4/2012
Cadmium	26	0.62		mg/Kg-dry	10	12/4/2012
Chromium	12	1.2		mg/Kg-dry	10	12/4/2012
Copper	1900	31		mg/Kg-dry	100	12/4/2012
Lead	7900	6.2		mg/Kg-dry	100	12/4/2012
Manganese	400	1.2		mg/Kg-dry	10	12/4/2012
Selenium	2	1.2		mg/Kg-dry	10	12/4/2012
Silver	1.7	1.2		mg/Kg-dry	10	12/4/2012
Zinc	9500	62		mg/Kg-dry	100	12/4/2012
pH (25 °C)	SW9045C					
pH	7.8			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	18.0	0.2	*	wt%	1	11/29/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-Concrete-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:10:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-019		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	0.5	0.02		mg/Kg-dry	1	12/4/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Arsenic	17	2		mg/Kg-dry	10	12/4/2012
Barium	130	2		mg/Kg-dry	10	12/4/2012
Cadmium	110	1		mg/Kg-dry	10	12/4/2012
Chromium	51	2		mg/Kg-dry	10	12/4/2012
Copper	320000	1000		mg/Kg-dry	2000	12/4/2012
Lead	24000	51		mg/Kg-dry	500	12/4/2012
Manganese	140	100		mg/Kg-dry	500	12/4/2012
Selenium	8.1	2		mg/Kg-dry	10	12/4/2012
Silver	62	2		mg/Kg-dry	10	12/4/2012
Zinc	58000	510		mg/Kg-dry	500	12/4/2012
pH (25 °C)	SW9045C					
pH	8.1			pH Units	1	11/30/2012
Percent Moisture	D2974					
Percent Moisture	2.7	0.2	*	wt%	1	11/29/2012

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
Aroclor 1016	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1221	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1232	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1242	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1248	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1254	ND	0.12		mg/Kg-dry	1	11/30/2012
Aroclor 1260	ND	0.12		mg/Kg-dry	1	11/30/2012
Pesticides						
4,4'-DDD	ND	0.0024		mg/Kg-dry	1	11/30/2012
4,4'-DDE	ND	0.0024		mg/Kg-dry	1	11/30/2012
4,4'-DDT	ND	0.0024		mg/Kg-dry	1	11/30/2012
Aldrin	ND	0.0024		mg/Kg-dry	1	11/30/2012
alpha-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
alpha-Chlordane	ND	0.0024		mg/Kg-dry	1	11/30/2012
beta-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
Chlordane	ND	0.024		mg/Kg-dry	1	11/30/2012
delta-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
Dieldrin	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endosulfan I	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endosulfan II	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endosulfan sulfate	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endrin	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endrin aldehyde	ND	0.0024		mg/Kg-dry	1	11/30/2012
Endrin ketone	ND	0.0024		mg/Kg-dry	1	11/30/2012
gamma-BHC	ND	0.0024		mg/Kg-dry	1	11/30/2012
gamma-Chlordane	ND	0.0024		mg/Kg-dry	1	11/30/2012
Heptachlor	ND	0.0024		mg/Kg-dry	1	11/30/2012
Heptachlor epoxide	ND	0.0024		mg/Kg-dry	1	11/30/2012
Methoxychlor	ND	0.0024		mg/Kg-dry	1	11/30/2012
Toxaphene	ND	0.049		mg/Kg-dry	1	11/30/2012
TCLP Mercury						
Mercury	ND	0.0002		mg/L	1	12/3/2012
Mercury						
Mercury	1.6	0.26		mg/Kg-dry	10	12/4/2012
Metals by ICP/MS						
Arsenic	10	1.5		mg/Kg-dry	10	12/4/2012

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
			SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
Barium	360	1.5		mg/Kg-dry	10	12/4/2012
Cadmium	25	0.77		mg/Kg-dry	10	12/4/2012
Chromium	50	1.5		mg/Kg-dry	10	12/4/2012
Copper	4500	39		mg/Kg-dry	100	12/4/2012
Lead	9700	7.7		mg/Kg-dry	100	12/4/2012
Manganese	610	1.5		mg/Kg-dry	10	12/4/2012
Selenium	ND	1.5		mg/Kg-dry	10	12/4/2012
Silver	2.9	1.5		mg/Kg-dry	10	12/4/2012
Zinc	12000	77		mg/Kg-dry	100	12/4/2012
TCLP Metals by ICP/MS						
			SW1311/6020 (SW3005A)		Prep Date: 11/29/2012	Analyst: JG
Arsenic	ND	0.01		mg/L	5	11/29/2012
Barium	0.85	0.5		mg/L	5	11/29/2012
Cadmium	0.35	0.005		mg/L	5	11/29/2012
Chromium	ND	0.01		mg/L	5	11/29/2012
Copper	2.3	0.1		mg/L	5	11/29/2012
Lead	16	0.005		mg/L	5	11/29/2012
Manganese	3.3	0.01		mg/L	5	11/29/2012
Selenium	ND	0.01		mg/L	5	11/29/2012
Silver	ND	0.01		mg/L	5	11/29/2012
Zinc	92	1		mg/L	100	11/30/2012
Semivolatile Organic Compounds by GC/MS						
			SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Acenaphthene	7.7	0.49		mg/Kg-dry	1	11/29/2012
Acenaphthylene	3.4	0.49		mg/Kg-dry	1	11/29/2012
Aniline	ND	4.9		mg/Kg-dry	1	11/29/2012
Anthracene	30	0.49		mg/Kg-dry	1	11/29/2012
Benz(a)anthracene	64	2.4		mg/Kg-dry	5	11/30/2012
Benzidine	ND	4.9		mg/Kg-dry	1	11/29/2012
Benzo(a)pyrene	56	0.49		mg/Kg-dry	1	11/29/2012
Benzo(b)fluoranthene	49	0.49		mg/Kg-dry	1	11/29/2012
Benzo(g,h,i)perylene	33	0.49		mg/Kg-dry	1	11/29/2012
Benzo(k)fluoranthene	43	0.49		mg/Kg-dry	1	11/29/2012
Benzoic acid	ND	12		mg/Kg-dry	1	11/29/2012
Benzyl alcohol	ND	2.5		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg-dry	1	11/29/2012
Bis(2-ethylhexyl)phthalate	ND	12		mg/Kg-dry	1	11/29/2012
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg-dry	1	11/29/2012

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB14-(24-32)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:55:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-020

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
		SW8270C (SW3550B)		Prep Date: 11/29/2012		Analyst: DM
Butyl benzyl phthalate	ND	2.5		mg/Kg-dry	1	11/29/2012
Carbazole	9.8	2.5		mg/Kg-dry	1	11/29/2012
4-Chloroaniline	ND	2.5		mg/Kg-dry	1	11/29/2012
4-Chloro-3-methylphenol	ND	4.9		mg/Kg-dry	1	11/29/2012
2-Chloronaphthalene	ND	2.5		mg/Kg-dry	1	11/29/2012
2-Chlorophenol	ND	2.5		mg/Kg-dry	1	11/29/2012
4-Chlorophenyl phenyl ether	ND	2.5		mg/Kg-dry	1	11/29/2012
Chrysene	66	2.4		mg/Kg-dry	5	11/30/2012
Dibenz(a,h)anthracene	17	0.49		mg/Kg-dry	1	11/29/2012
Dibenzofuran	5.3	2.5		mg/Kg-dry	1	11/29/2012
1,2-Dichlorobenzene	ND	2.5		mg/Kg-dry	1	11/29/2012
1,3-Dichlorobenzene	ND	2.5		mg/Kg-dry	1	11/29/2012
1,4-Dichlorobenzene	ND	2.5		mg/Kg-dry	1	11/29/2012
3,3'-Dichlorobenzidine	ND	2.5		mg/Kg-dry	1	11/29/2012
2,4-Dichlorophenol	ND	2.5		mg/Kg-dry	1	11/29/2012
Diethyl phthalate	ND	2.5		mg/Kg-dry	1	11/29/2012
2,4-Dimethylphenol	ND	2.5		mg/Kg-dry	1	11/29/2012
Dimethyl phthalate	ND	2.5		mg/Kg-dry	1	11/29/2012
4,6-Dinitro-2-methylphenol	ND	4.9		mg/Kg-dry	1	11/29/2012
2,4-Dinitrophenol	ND	12		mg/Kg-dry	1	11/29/2012
2,4-Dinitrotoluene	ND	0.49		mg/Kg-dry	1	11/29/2012
2,6-Dinitrotoluene	ND	0.49		mg/Kg-dry	1	11/29/2012
Di-n-butyl phthalate	ND	2.5		mg/Kg-dry	1	11/29/2012
Di-n-octyl phthalate	ND	2.5		mg/Kg-dry	1	11/29/2012
Fluoranthene	130	2.4		mg/Kg-dry	5	11/30/2012
Fluorene	11	0.49		mg/Kg-dry	1	11/29/2012
Hexachlorobenzene	ND	2.5		mg/Kg-dry	1	11/29/2012
Hexachlorobutadiene	ND	2.5		mg/Kg-dry	1	11/29/2012
Hexachlorocyclopentadiene	ND	2.5		mg/Kg-dry	1	11/29/2012
Hexachloroethane	ND	2.5		mg/Kg-dry	1	11/29/2012
Indeno(1,2,3-cd)pyrene	30	0.49		mg/Kg-dry	1	11/29/2012
Isophorone	ND	2.5		mg/Kg-dry	1	11/29/2012
2-Methylnaphthalene	3.8	2.5		mg/Kg-dry	1	11/29/2012
2-Methylphenol	ND	2.5		mg/Kg-dry	1	11/29/2012
4-Methylphenol	ND	2.5		mg/Kg-dry	1	11/29/2012
Naphthalene	4.2	0.49		mg/Kg-dry	1	11/29/2012
2-Nitroaniline	ND	2.5		mg/Kg-dry	1	11/29/2012
3-Nitroaniline	ND	2.5		mg/Kg-dry	1	11/29/2012

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Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB14-(24-32)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:55:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-020

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS **SW8270C (SW3550B)** Prep Date: **11/29/2012** Analyst: **DM**

4-Nitroaniline	ND	2.5	mg/Kg-dry	1	11/29/2012
2-Nitrophenol	ND	2.5	mg/Kg-dry	1	11/29/2012
4-Nitrophenol	ND	4.9	mg/Kg-dry	1	11/29/2012
Nitrobenzene	ND	0.49	mg/Kg-dry	1	11/29/2012
N-Nitrosodi-n-propylamine	ND	0.49	mg/Kg-dry	1	11/29/2012
N-Nitrosodimethylamine	ND	2.5	mg/Kg-dry	1	11/29/2012
N-Nitrosodiphenylamine	ND	0.49	mg/Kg-dry	1	11/29/2012
2, 2'-oxybis(1-Chloropropane)	ND	2.5	mg/Kg-dry	1	11/29/2012
Pentachlorophenol	ND	0.49	mg/Kg-dry	1	11/29/2012
Phenanthrene	120	2.4	mg/Kg-dry	5	11/30/2012
Phenol	ND	2.5	mg/Kg-dry	1	11/29/2012
Pyrene	120	2.4	mg/Kg-dry	5	11/30/2012
Pyridine	ND	9.9	mg/Kg-dry	1	11/29/2012
1,2,4-Trichlorobenzene	ND	2.5	mg/Kg-dry	1	11/29/2012
2,4,5-Trichlorophenol	ND	2.5	mg/Kg-dry	1	11/29/2012
2,4,6-Trichlorophenol	ND	2.5	mg/Kg-dry	1	11/29/2012

Volatile Organic Compounds by GC/MS **SW5035/8260B** Prep Date: **11/27/2012** Analyst: **ERP**

Acetone	ND	0.17	mg/Kg-dry	1	12/3/2012
Benzene	ND	0.012	mg/Kg-dry	1	12/3/2012
Bromodichloromethane	ND	0.012	mg/Kg-dry	1	12/3/2012
Bromoform	ND	0.012	mg/Kg-dry	1	12/3/2012
Bromomethane	ND	0.023	mg/Kg-dry	1	12/3/2012
2-Butanone	ND	0.17	mg/Kg-dry	1	12/3/2012
Carbon disulfide	ND	0.12	mg/Kg-dry	1	12/3/2012
Carbon tetrachloride	ND	0.012	mg/Kg-dry	1	12/3/2012
Chlorobenzene	ND	0.012	mg/Kg-dry	1	12/3/2012
Chloroethane	ND	0.023	mg/Kg-dry	1	12/3/2012
Chloroform	ND	0.012	mg/Kg-dry	1	12/3/2012
Chloromethane	ND	0.023	mg/Kg-dry	1	12/3/2012
Dibromochloromethane	ND	0.012	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethane	ND	0.012	mg/Kg-dry	1	12/3/2012
1,2-Dichloroethane	ND	0.012	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethene	ND	0.012	mg/Kg-dry	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.012	mg/Kg-dry	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.012	mg/Kg-dry	1	12/3/2012
1,2-Dichloropropane	ND	0.012	mg/Kg-dry	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0046	mg/Kg-dry	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0046	mg/Kg-dry	1	12/3/2012

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Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB14-(24-32)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:55:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-020		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
			SW5035/8260B		Prep Date: 11/27/2012	Analyst: ERP
Ethylbenzene	ND	0.012		mg/Kg-dry	1	12/3/2012
2-Hexanone	ND	0.046		mg/Kg-dry	1	12/3/2012
4-Methyl-2-pentanone	ND	0.046		mg/Kg-dry	1	12/3/2012
Methylene chloride	ND	0.023		mg/Kg-dry	1	12/3/2012
Methyl tert-butyl ether	ND	0.012		mg/Kg-dry	1	12/3/2012
Styrene	ND	0.012		mg/Kg-dry	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.012		mg/Kg-dry	1	12/3/2012
Tetrachloroethene	ND	0.012		mg/Kg-dry	1	12/3/2012
Toluene	ND	0.012		mg/Kg-dry	1	12/3/2012
1,1,1-Trichloroethane	0.022	0.012		mg/Kg-dry	1	12/3/2012
1,1,2-Trichloroethane	ND	0.012		mg/Kg-dry	1	12/3/2012
Trichloroethene	ND	0.012		mg/Kg-dry	1	12/3/2012
Vinyl chloride	ND	0.012		mg/Kg-dry	1	12/3/2012
Xylenes, Total	ND	0.035		mg/Kg-dry	1	12/3/2012
pH (25 °C)						
pH			SW9045C		Prep Date: 11/30/2012	Analyst: MNG
				pH Units	1	11/30/2012
Percent Moisture						
Percent Moisture			D2974		Prep Date: 11/28/2012	Analyst: RW
				*	wt%	11/29/2012

Qualifiers:

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- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-021		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
Aroclor 1016	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1221	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1232	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1242	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1248	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1254	ND	0.092		mg/Kg-dry	1	11/30/2012
Aroclor 1260	ND	0.092		mg/Kg-dry	1	11/30/2012
Pesticides						
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	11/30/2012
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	11/30/2012
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	11/30/2012
Aldrin	ND	0.0018		mg/Kg-dry	1	11/30/2012
alpha-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	11/30/2012
beta-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
Chlordane	ND	0.018		mg/Kg-dry	1	11/30/2012
delta-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
Dieldrin	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endosulfan I	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endosulfan II	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endrin	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	11/30/2012
Endrin ketone	ND	0.0018		mg/Kg-dry	1	11/30/2012
gamma-BHC	ND	0.0018		mg/Kg-dry	1	11/30/2012
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	11/30/2012
Heptachlor	ND	0.0018		mg/Kg-dry	1	11/30/2012
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	11/30/2012
Methoxychlor	ND	0.0018		mg/Kg-dry	1	11/30/2012
Toxaphene	ND	0.038		mg/Kg-dry	1	11/30/2012
TCLP Mercury						
Mercury	ND	0.0002		mg/L	1	12/3/2012
Mercury						
Mercury	7.8	1.8		mg/Kg-dry	100	12/4/2012
Metals by ICP/MS						
Arsenic	15	1		mg/Kg-dry	10	11/30/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-021		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
			SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
Barium	230	1		mg/Kg-dry	10	11/30/2012
Cadmium	25	0.52		mg/Kg-dry	10	11/30/2012
Chromium	14	1		mg/Kg-dry	10	11/30/2012
Copper	2100	130		mg/Kg-dry	500	12/3/2012
Lead	7400	26		mg/Kg-dry	500	12/3/2012
Manganese	190	1		mg/Kg-dry	10	11/30/2012
Selenium	1.7	1		mg/Kg-dry	10	11/30/2012
Silver	1.7	1		mg/Kg-dry	10	11/30/2012
Zinc	14000	260		mg/Kg-dry	500	12/3/2012
TCLP Metals by ICP/MS						
			SW1311/6020 (SW3005A)		Prep Date: 11/29/2012	Analyst: JG
Arsenic	ND	0.01		mg/L	5	11/29/2012
Barium	ND	0.5		mg/L	5	11/29/2012
Cadmium	0.74	0.005		mg/L	5	11/29/2012
Chromium	ND	0.01		mg/L	5	11/29/2012
Copper	19	2		mg/L	100	11/30/2012
Lead	76	1		mg/L	1000	11/30/2012
Manganese	1.8	0.01		mg/L	5	11/29/2012
Selenium	ND	0.01		mg/L	5	11/29/2012
Silver	ND	0.01		mg/L	5	11/29/2012
Zinc	510	10		mg/L	1000	11/30/2012
Semivolatile Organic Compounds by GC/MS						
			SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Acenaphthene	2.4	0.038		mg/Kg-dry	1	11/29/2012
Acenaphthylene	0.87	0.038		mg/Kg-dry	1	11/29/2012
Aniline	ND	0.38		mg/Kg-dry	1	11/29/2012
Anthracene	5.3	0.19		mg/Kg-dry	5	11/30/2012
Benz(a)anthracene	13	0.19		mg/Kg-dry	5	11/30/2012
Benzidine	ND	0.38		mg/Kg-dry	1	11/29/2012
Benzo(a)pyrene	12	0.19		mg/Kg-dry	5	11/30/2012
Benzo(b)fluoranthene	11	0.19		mg/Kg-dry	5	11/30/2012
Benzo(g,h,i)perylene	6.5	0.19		mg/Kg-dry	5	11/30/2012
Benzo(k)fluoranthene	9.1	0.19		mg/Kg-dry	5	11/30/2012
Benzoic acid	ND	0.95		mg/Kg-dry	1	11/29/2012
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	11/29/2012
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	11/29/2012
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	11/29/2012

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RL - Reporting / Quantitation Limit for the analysis

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HT - Sample received past holding time

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB16-(24-36)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 10:40:00 AM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
		SW8270C (SW3550B)		Prep Date: 11/29/2012		Analyst: DM
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
Carbazole	2.8	0.19		mg/Kg-dry	1	11/29/2012
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	11/29/2012
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	11/29/2012
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	11/29/2012
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	11/29/2012
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	11/29/2012
Chrysene	14	0.19		mg/Kg-dry	5	11/30/2012
Dibenz(a,h)anthracene	3.5	0.038		mg/Kg-dry	1	11/29/2012
Dibenzofuran	1.4	0.19		mg/Kg-dry	1	11/29/2012
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	11/29/2012
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	11/29/2012
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	11/29/2012
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	11/29/2012
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	11/29/2012
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/29/2012
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/29/2012
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	11/29/2012
Fluoranthene	13	0.19		mg/Kg-dry	5	12/3/2012
Fluorene	2.5	0.038		mg/Kg-dry	1	11/29/2012
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	11/29/2012
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	11/29/2012
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	11/29/2012
Hexachloroethane	ND	0.19		mg/Kg-dry	1	11/29/2012
Indeno(1,2,3-cd)pyrene	5.8	0.19		mg/Kg-dry	5	11/30/2012
Isophorone	ND	0.19		mg/Kg-dry	1	11/29/2012
2-Methylnaphthalene	0.89	0.19		mg/Kg-dry	1	11/29/2012
2-Methylphenol	ND	0.19		mg/Kg-dry	1	11/29/2012
4-Methylphenol	ND	0.19		mg/Kg-dry	1	11/29/2012
Naphthalene	1.9	0.038		mg/Kg-dry	1	11/29/2012
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	11/29/2012
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	11/29/2012

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RL - Reporting / Quantitation Limit for the analysis

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-021		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 11/29/2012	Analyst: DM		
4-Nitroaniline	ND	0.19	mg/Kg-dry	1	11/29/2012
2-Nitrophenol	ND	0.19	mg/Kg-dry	1	11/29/2012
4-Nitrophenol	ND	0.38	mg/Kg-dry	1	11/29/2012
Nitrobenzene	ND	0.038	mg/Kg-dry	1	11/29/2012
N-Nitrosodi-n-propylamine	ND	0.038	mg/Kg-dry	1	11/29/2012
N-Nitrosodimethylamine	ND	0.19	mg/Kg-dry	1	11/29/2012
N-Nitrosodiphenylamine	ND	0.038	mg/Kg-dry	1	11/29/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.19	mg/Kg-dry	1	11/29/2012
Pentachlorophenol	ND	0.038	mg/Kg-dry	1	11/29/2012
Phenanthrene	22	0.19	mg/Kg-dry	5	11/30/2012
Phenol	ND	0.19	mg/Kg-dry	1	11/29/2012
Pyrene	22	0.19	mg/Kg-dry	5	11/30/2012
Pyridine	ND	0.76	mg/Kg-dry	1	11/29/2012
1,2,4-Trichlorobenzene	ND	0.19	mg/Kg-dry	1	11/29/2012
2,4,5-Trichlorophenol	ND	0.19	mg/Kg-dry	1	11/29/2012
2,4,6-Trichlorophenol	ND	0.19	mg/Kg-dry	1	11/29/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B	Prep Date: 11/27/2012	Analyst: ERP		
Acetone	ND	0.086	mg/Kg-dry	1	12/3/2012
Benzene	ND	0.0057	mg/Kg-dry	1	12/3/2012
Bromodichloromethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
Bromoform	ND	0.0057	mg/Kg-dry	1	12/3/2012
Bromomethane	ND	0.011	mg/Kg-dry	1	12/3/2012
2-Butanone	ND	0.086	mg/Kg-dry	1	12/3/2012
Carbon disulfide	ND	0.057	mg/Kg-dry	1	12/3/2012
Carbon tetrachloride	ND	0.0057	mg/Kg-dry	1	12/3/2012
Chlorobenzene	ND	0.0057	mg/Kg-dry	1	12/3/2012
Chloroethane	ND	0.011	mg/Kg-dry	1	12/3/2012
Chloroform	ND	0.0057	mg/Kg-dry	1	12/3/2012
Chloromethane	ND	0.011	mg/Kg-dry	1	12/3/2012
Dibromochloromethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,2-Dichloroethane	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethene	ND	0.0057	mg/Kg-dry	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg-dry	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg-dry	1	12/3/2012
1,2-Dichloropropane	ND	0.0057	mg/Kg-dry	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0023	mg/Kg-dry	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0023	mg/Kg-dry	1	12/3/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB16-(24-36)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 10:40:00 AM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-021		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
			SW5035/8260B		Prep Date: 11/27/2012	Analyst: ERP
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/3/2012
2-Hexanone	ND	0.023		mg/Kg-dry	1	12/3/2012
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	12/3/2012
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/3/2012
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/3/2012
Styrene	ND	0.0057		mg/Kg-dry	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/3/2012
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/3/2012
Toluene	ND	0.0057		mg/Kg-dry	1	12/3/2012
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/3/2012
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/3/2012
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/3/2012
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/3/2012
Xylenes, Total	ND	0.017		mg/Kg-dry	1	12/3/2012
pH (25 °C)						
pH			SW9045C		Prep Date: 11/30/2012	Analyst: MNG
				pH Units	1	11/30/2012
Percent Moisture						
Percent Moisture			D2974		Prep Date: 11/28/2012	Analyst: RW
	13.0	0.2	*	wt%	1	11/29/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB05-(6-16)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:25:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-022		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
Aroclor 1016	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1221	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1232	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1242	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1248	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1254	ND	0.093		mg/Kg-dry	1	11/30/2012
Aroclor 1260	ND	0.093		mg/Kg-dry	1	11/30/2012
Pesticides						
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/30/2012
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/30/2012
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/30/2012
Aldrin	ND	0.0019		mg/Kg-dry	1	11/30/2012
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/30/2012
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
Chlordane	ND	0.019		mg/Kg-dry	1	11/30/2012
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endrin	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/30/2012
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/30/2012
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/30/2012
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/30/2012
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/30/2012
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/30/2012
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/30/2012
Toxaphene	ND	0.038		mg/Kg-dry	1	11/30/2012
TCLP Mercury						
Mercury				SW1311/7470A		Prep Date: 11/30/2012 Analyst: LB
	ND	0.0002		mg/L	1	12/3/2012
Mercury						
Mercury	0.24	0.02		SW7471A		Prep Date: 12/3/2012 Analyst: LB
				mg/Kg-dry	1	12/4/2012
Metals by ICP/MS						
Arsenic	6.2	1		SW6020 (SW3050B)		Prep Date: 11/30/2012 Analyst: JG
				mg/Kg-dry	10	12/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012**Date Printed:** December 10, 2012

Client: Weston Solutions **Client Sample ID:** LM-SB05-(6-16)-112712
Lab Order: 12110922 **Collection Date:** 11/27/2012 2:25:00 PM
Project: Lowenthal Metals Chicago, IL **Matrix:** Soil
Lab ID: 12110922-022

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
			SW6020 (SW3050B)		Prep Date: 11/30/2012	Analyst: JG
Barium	110	1		mg/Kg-dry	10	12/4/2012
Cadmium	7	0.52		mg/Kg-dry	10	12/4/2012
Chromium	8	1		mg/Kg-dry	10	12/4/2012
Copper	12000	130		mg/Kg-dry	500	12/4/2012
Lead	1100	0.52		mg/Kg-dry	10	12/4/2012
Manganese	150	1		mg/Kg-dry	10	12/4/2012
Selenium	1.3	1		mg/Kg-dry	10	12/4/2012
Silver	2.3	1		mg/Kg-dry	10	12/4/2012
Zinc	19000	260		mg/Kg-dry	500	12/4/2012
TCLP Metals by ICP/MS						
			SW1311/6020 (SW3005A)		Prep Date: 11/29/2012	Analyst: JG
Arsenic	0.011	0.01		mg/L	5	11/29/2012
Barium	ND	0.5		mg/L	5	11/29/2012
Cadmium	0.12	0.005		mg/L	5	11/29/2012
Chromium	ND	0.01		mg/L	5	11/29/2012
Copper	4	2		mg/L	100	11/30/2012
Lead	2.2	0.1		mg/L	100	11/30/2012
Manganese	1.2	0.01		mg/L	5	11/29/2012
Selenium	ND	0.01		mg/L	5	11/29/2012
Silver	ND	0.01		mg/L	5	11/29/2012
Zinc	120	1		mg/L	100	11/30/2012
Semivolatile Organic Compounds by GC/MS						
			SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Acenaphthene	ND	0.38		mg/Kg-dry	1	11/29/2012
Acenaphthylene	0.97	0.38		mg/Kg-dry	1	11/29/2012
Aniline	ND	3.8		mg/Kg-dry	1	11/29/2012
Anthracene	3.9	0.38		mg/Kg-dry	1	11/29/2012
Benz(a)anthracene	5.4	0.38		mg/Kg-dry	1	11/29/2012
Benzidine	ND	3.8		mg/Kg-dry	1	11/29/2012
Benzo(a)pyrene	20	0.38		mg/Kg-dry	1	11/29/2012
Benzo(b)fluoranthene	6.2	0.38		mg/Kg-dry	1	11/29/2012
Benzo(g,h,i)perylene	8.6	0.38		mg/Kg-dry	1	11/29/2012
Benzo(k)fluoranthene	4.1	0.38		mg/Kg-dry	1	11/29/2012
Benzoic acid	ND	9.5		mg/Kg-dry	1	11/29/2012
Benzyl alcohol	ND	1.9		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethoxy)methane	ND	1.9		mg/Kg-dry	1	11/29/2012
Bis(2-chloroethyl)ether	ND	1.9		mg/Kg-dry	1	11/29/2012
Bis(2-ethylhexyl)phthalate	ND	9.5		mg/Kg-dry	1	11/29/2012
4-Bromophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	11/29/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions**Client Sample ID:** LM-SB05-(6-16)-112712**Lab Order:** 12110922**Collection Date:** 11/27/2012 2:25:00 PM**Project:** Lowenthal Metals Chicago, IL**Matrix:** Soil**Lab ID:** 12110922-022

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 11/29/2012	Analyst: DM
Butyl benzyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
Carbazole	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Chloroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Chloro-3-methylphenol	ND	3.8	mg/Kg-dry	1	11/29/2012
2-Chloronaphthalene	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Chlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Chlorophenyl phenyl ether	ND	1.9	mg/Kg-dry	1	11/29/2012
Chrysene	14	0.38	mg/Kg-dry	1	11/29/2012
Dibenz(a,h)anthracene	2.8	0.38	mg/Kg-dry	1	11/29/2012
Dibenzofuran	ND	1.9	mg/Kg-dry	1	11/29/2012
1,2-Dichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
1,3-Dichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
1,4-Dichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
3,3'-Dichlorobenzidine	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4-Dichlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Diethyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4-Dimethylphenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Dimethyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
4,6-Dinitro-2-methylphenol	ND	3.8	mg/Kg-dry	1	11/29/2012
2,4-Dinitrophenol	ND	9.5	mg/Kg-dry	1	11/29/2012
2,4-Dinitrotoluene	ND	0.38	mg/Kg-dry	1	11/29/2012
2,6-Dinitrotoluene	ND	0.38	mg/Kg-dry	1	11/29/2012
Di-n-butyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
Di-n-octyl phthalate	ND	1.9	mg/Kg-dry	1	11/29/2012
Fluoranthene	7.5	0.38	mg/Kg-dry	1	11/29/2012
Fluorene	ND	0.38	mg/Kg-dry	1	11/29/2012
Hexachlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
Hexachlorobutadiene	ND	1.9	mg/Kg-dry	1	11/29/2012
Hexachlorocyclopentadiene	ND	1.9	mg/Kg-dry	1	11/29/2012
Hexachloroethane	ND	1.9	mg/Kg-dry	1	11/29/2012
Indeno(1,2,3-cd)pyrene	3.6	0.38	mg/Kg-dry	1	11/29/2012
Isophorone	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Methylnaphthalene	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Methylphenol	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Methylphenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Naphthalene	ND	0.38	mg/Kg-dry	1	11/29/2012
2-Nitroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012
3-Nitroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client: Weston Solutions**Client Sample ID:** LM-SB05-(6-16)-112712**Lab Order:** 12110922**Collection Date:** 11/27/2012 2:25:00 PM**Project:** Lowenthal Metals Chicago, IL**Matrix:** Soil**Lab ID:** 12110922-022

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS **SW8270C (SW3550B)** Prep Date: **11/29/2012** Analyst: **DM**

4-Nitroaniline	ND	1.9	mg/Kg-dry	1	11/29/2012
2-Nitrophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
4-Nitrophenol	ND	3.8	mg/Kg-dry	1	11/29/2012
Nitrobenzene	ND	0.38	mg/Kg-dry	1	11/29/2012
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg-dry	1	11/29/2012
N-Nitrosodimethylamine	ND	1.9	mg/Kg-dry	1	11/29/2012
N-Nitrosodiphenylamine	ND	0.38	mg/Kg-dry	1	11/29/2012
2, 2'-oxybis(1-Chloropropane)	ND	1.9	mg/Kg-dry	1	11/29/2012
Pentachlorophenol	ND	0.38	mg/Kg-dry	1	11/29/2012
Phanthrene	5.8	0.38	mg/Kg-dry	1	11/29/2012
Phenol	ND	1.9	mg/Kg-dry	1	11/29/2012
Pyrene	49	1.9	mg/Kg-dry	5	11/30/2012
Pyridine	ND	7.7	mg/Kg-dry	1	11/29/2012
1,2,4-Trichlorobenzene	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4,5-Trichlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012
2,4,6-Trichlorophenol	ND	1.9	mg/Kg-dry	1	11/29/2012

Volatile Organic Compounds by GC/MS **SW5035/8260B** Prep Date: **11/27/2012** Analyst: **ERP**

Acetone	ND	0.099	mg/Kg-dry	1	12/3/2012
Benzene	ND	0.0066	mg/Kg-dry	1	12/3/2012
Bromodichloromethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
Bromoform	ND	0.0066	mg/Kg-dry	1	12/3/2012
Bromomethane	ND	0.013	mg/Kg-dry	1	12/3/2012
2-Butanone	ND	0.099	mg/Kg-dry	1	12/3/2012
Carbon disulfide	ND	0.066	mg/Kg-dry	1	12/3/2012
Carbon tetrachloride	ND	0.0066	mg/Kg-dry	1	12/3/2012
Chlorobenzene	ND	0.0066	mg/Kg-dry	1	12/3/2012
Chloroethane	ND	0.013	mg/Kg-dry	1	12/3/2012
Chloroform	ND	0.0066	mg/Kg-dry	1	12/3/2012
Chloromethane	ND	0.013	mg/Kg-dry	1	12/3/2012
Dibromochloromethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,2-Dichloroethane	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,1-Dichloroethene	ND	0.0066	mg/Kg-dry	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.0066	mg/Kg-dry	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.0066	mg/Kg-dry	1	12/3/2012
1,2-Dichloropropane	ND	0.0066	mg/Kg-dry	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0026	mg/Kg-dry	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0026	mg/Kg-dry	1	12/3/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB05-(6-16)-112712
Lab Order:	12110922	Collection Date:	11/27/2012 2:25:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-022		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
			SW5035/8260B		Prep Date: 11/27/2012	Analyst: ERP
Ethylbenzene	ND	0.0066		mg/Kg-dry	1	12/3/2012
2-Hexanone	ND	0.026		mg/Kg-dry	1	12/3/2012
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	12/3/2012
Methylene chloride	ND	0.013		mg/Kg-dry	1	12/3/2012
Methyl tert-butyl ether	ND	0.0066		mg/Kg-dry	1	12/3/2012
Styrene	ND	0.0066		mg/Kg-dry	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.0066		mg/Kg-dry	1	12/3/2012
Tetrachloroethene	ND	0.0066		mg/Kg-dry	1	12/3/2012
Toluene	ND	0.0066		mg/Kg-dry	1	12/3/2012
1,1,1-Trichloroethane	ND	0.0066		mg/Kg-dry	1	12/3/2012
1,1,2-Trichloroethane	ND	0.0066		mg/Kg-dry	1	12/3/2012
Trichloroethene	ND	0.0066		mg/Kg-dry	1	12/3/2012
Vinyl chloride	ND	0.0066		mg/Kg-dry	1	12/3/2012
Xylenes, Total	ND	0.02		mg/Kg-dry	1	12/3/2012
pH (25 °C)						
pH			SW9045C		Prep Date: 11/30/2012	Analyst: MNG
				pH Units	1	11/30/2012
Percent Moisture						
Percent Moisture			D2974		Prep Date: 11/28/2012	Analyst: RW
	14.3	0.2	*	wt%	1	11/29/2012

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 10, 2012

Date Printed: December 10, 2012

Client:	Weston Solutions	Client Sample ID:	LM-SB05-(6-16)-112712D
Lab Order:	12110922	Collection Date:	11/27/2012 2:25:00 PM
Project:	Lowenthal Metals Chicago, IL	Matrix:	Soil
Lab ID:	12110922-023		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
		SW5035/8260B				
Acetone	0.098	0.077		mg/Kg	1	12/3/2012
Benzene	ND	0.0051		mg/Kg	1	12/3/2012
Bromodichloromethane	ND	0.0051		mg/Kg	1	12/3/2012
Bromoform	ND	0.0051		mg/Kg	1	12/3/2012
Bromomethane	ND	0.01		mg/Kg	1	12/3/2012
2-Butanone	ND	0.077		mg/Kg	1	12/3/2012
Carbon disulfide	ND	0.051		mg/Kg	1	12/3/2012
Carbon tetrachloride	ND	0.0051		mg/Kg	1	12/3/2012
Chlorobenzene	ND	0.0051		mg/Kg	1	12/3/2012
Chloroethane	ND	0.01		mg/Kg	1	12/3/2012
Chloroform	ND	0.0051		mg/Kg	1	12/3/2012
Chloromethane	ND	0.01		mg/Kg	1	12/3/2012
Dibromochloromethane	ND	0.0051		mg/Kg	1	12/3/2012
1,1-Dichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
1,2-Dichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
1,1-Dichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
1,2-Dichloropropane	ND	0.0051		mg/Kg	1	12/3/2012
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg	1	12/3/2012
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg	1	12/3/2012
Ethylbenzene	ND	0.0051		mg/Kg	1	12/3/2012
2-Hexanone	ND	0.021		mg/Kg	1	12/3/2012
4-Methyl-2-pentanone	ND	0.021		mg/Kg	1	12/3/2012
Methylene chloride	ND	0.01		mg/Kg	1	12/3/2012
Methyl tert-butyl ether	ND	0.0051		mg/Kg	1	12/3/2012
Styrene	ND	0.0051		mg/Kg	1	12/3/2012
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg	1	12/3/2012
Tetrachloroethene	ND	0.0051		mg/Kg	1	12/3/2012
Toluene	ND	0.0051		mg/Kg	1	12/3/2012
1,1,1-Trichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
1,1,2-Trichloroethane	ND	0.0051		mg/Kg	1	12/3/2012
Trichloroethene	ND	0.0051		mg/Kg	1	12/3/2012
Vinyl chloride	ND	0.0051		mg/Kg	1	12/3/2012
Xylenes, Total	ND	0.015		mg/Kg	1	12/3/2012

Qualifiers:
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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ND - Not Detected at the Reporting Limit
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
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STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386

e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 846679

Page: 1 of 2

Company: Weston Solutions, Inc		P.O. No.:																		
Project Number:		Client Tracking No.:																		
Project Name: Located North-15		Quote No.:																		
Project Location: Chicago IL																				
Sampler(s): Jonathan Caw																				
Report To: Tonga Banks		Phone: 843-913-4054																		
Fax:																				
QC Level: 1 2 3 4		e-mail: T.bella@westonsolutions.com																		
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Turn Around: PCPA Metals + Chem. 12 hr PCPA Metals + Chem. 24 hr PCPA Metals + Chem. 48 hr PCPA Metals + Chem. 5 days											
LM-SB03-(24-36)-112712		11/27	1435	SD	X	None		1	X	X	X									Results Needed: / / am/pm
LM-SB15-(12-24)-112712		11/27	1045	SD	X	None		1	X	X	X									Remarks Lab No.:
LM-SB16D-(12-24)-112712		11/27	1500	SD	X	None		1	X	X	X									001
LM-SB03-(12-24)-112712		11/27	1435	SD	X	None		1	X	X	X									002
LM-SB14-(6-12)-112712		11/27	1055	SD	X	None		1	X	X	X									003
LM-SB23(6-12)-112712		11/27	1025	SD	X	None		1	X	X	X									004
LM-SB14-(12-24)-112712		11/27	1055	SD	X	None		1	X	X	X									005
LM-SB17-(24-36)-112712		11/27	1030	SD	X	None		1	X	X	X									006
LM-SB10-(24-36)-112712		11/27	1330	SD	X	None		1	X	X	X									007
LM-SB17-(12-24)-112712		11/27	1030	SD	X	None		1	X	X	X									008
LM-SB16-(2-6)-112712		11/27	1040	SD	X	None		1	X	X	X									009
LM-SB01-(0-10)-112712		11/27	1115	SD	X	None		1	X	X	X									010
LM-SB10-(24-36)-112712		11/27	1330	SD	X	None		1	X	X	X									011
LM-SB07-(6-12)-112712		11/27	1120	SD	X	None		1	X	X	X									012
LM-SB02-(12-24)-112712		11/27	1450	SD	X	None		1	X	X	X									013
LM-SB19-(12-24)-112712		11/27	0935	SD	X	None		1	X	X	X									014
LM-SB23-(12-24)-112712		11/27/12	1025	SD	X	None		1	X	X	X									015
LM-SB23-(12-24)-112712D		11/27/12	1025	SD	X	None		1	X	X	X									016
LM-Concrete - 112712		11/27/12	1410	SD	X	None		1	X	X	X									017
Relinquished by: (Signature)				Date/Time: 11/27/12 1242	Comments:										Laboratory Work Order No.:					
Received by: (Signature)				Date/Time: 11/27/12 1742											12110922					
Relinquished by: (Signature)				Date/Time:																
Received by: (Signature)				Date/Time:																
Relinquished by: (Signature)				Date/Time:											Preservation Code: A = None B = HNO ₃ C = NaOH D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other					
Received by: (Signature)				Date/Time:																

Received on Ice: Yes No

Temperature: 1.9 °C

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 846680

Page: 2 of 2

Company: <u>Location Solutions, Inc.</u> Project Number: Project Name: <u>Locational Metals</u> Project Location: <u>Chicago IL</u> Sampler(s): <u>Jonathan Colombe</u> Report To: <u>Tanya Balla</u> Phone: <u>347-913-4094</u> Fax: _____ QC Level: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> e-mail: <u>T.balla@location-solutions.com</u>							P.O. No.: Quote No.: <i>Received Materials + Crim. Lab</i>	Turn Around: <i>PCB Analysis + Crim. Lab</i>	Results Needed: <i>PCBs</i>										
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers											Remarks	Lab No.:
								<i>PCBs</i>	<i>VOCs</i>	<i>PCP</i>	<i>PCB</i>								
LM-SB14-(24-32)-112712	11/27	1055	SO	X		no	4	X	X	X	X	X	X	X	X	X	X	020	
LM-SB16-(24-36)-112712	11/27	1040	SO	X		no	4	X	X	X	X	X	X	X	X	X	X	021	
LM-SB05-(6-16)-112712	11/27	1425	SO	X		no	4	X	X	X	X	X	X	X	X	X	X	022	
LM-SB05-(6-16)-112712	11/27	1425	SO	X		no	3									X		023	
Relinquished by: (Signature) <u>J. Colombe</u> Date/Time: <u>11/27/12 1740</u> Comments:							Laboratory Work Order No.: <u>12110922</u> Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature: <u>1.9 °C</u>												
Received by: (Signature) <u>J. Colombe</u> Date/Time: <u>11/27/12 1742</u> Relinquished by: (Signature) <u>J. Colombe</u> Date/Time: Received by: (Signature) <u>J. Colombe</u> Date/Time: Relinquished by: (Signature) <u>J. Colombe</u> Date/Time: Received by: (Signature) <u>J. Colombe</u> Date/Time: Relinquished by: (Signature) <u>J. Colombe</u> Date/Time: Received by: (Signature) <u>J. Colombe</u> Date/Time:																			
Preservation Code: A = None B = HNO ₃ C = NaOH D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other																			

STAT Analysis Corporation**Sample Receipt Checklist**Client Name **WESTON VERNON HILLS**Date and Time Received: **11/27/2012 5:42:00 PM**Work Order Number **12110922**Received by: **CDF**

Checklist completed by:

Signature

Date

11/27/12

Reviewed by:

*KL**12-3-12*

Initials

Date

Matrix:

Carrier name: **Client Delivered**Shipping container/cooler in good condition? Yes No Not Present Custody seals intact on shipping container/cooler? Yes No Not Present Custody seals intact on sample bottles? Yes No Not Present Chain of custody present? Yes No Chain of custody signed when relinquished and received? Yes No Chain of custody agrees with sample labels/containers? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Container or Temp Blank temperature in compliance? Yes No Temperature **1.9 °C**Water - VOA vials have zero headspace? No VOA vials submitted Yes No Water - Samples pH checked? Yes No Checked by: _____Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____

Date contacted: _____

Contacted by: _____

Response: _____

STAT Analysis Corporation

CLIENT: Weston Solutions

Work Order: 12110922

Project: Lowenthal Metals Chicago, IL

Test No: SW5035/8260B Matrix: S

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VSTD050	99.6	104	99.2	104				
VBLK120312-2	94.9	104	100	111				
VLCS120312-2	102	103	103	109				
VLCSD120312-2	102	103	99.6	106				
12110922-020A	108	99.7	99.2	119				
12110922-021A	102	102	103	130				
12110922-022A	92.3	103	104	124				
12110922-023A	101	100	105	112				

Acronym	Surrogate	QC Limits
BR4FBZ	= 4-Bromofluorobenzene	44-114
BZMED8	= Toluene-d8	62-122
DBFM	= Dibromofluoromethane	74-150
DCA12D4	= 1,2-Dichloroethane-d4	78-160

* Surrogate recovery outside acceptance limits

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85337

Sample ID: VBLK120312-2	SampType: MBLK	TestCode: VOC_ENCOR	Units: mg/Kg	Prep Date:	Run ID: VOA-2_121203A						
Client ID: ZZZZZ	Batch ID: R85337	TestNo: SW5035/8260		Analysis Date: 12/3/2012	SeqNo: 2298727						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.075									
2-Hexanone	ND	0.020									
4-Methyl-2-pentanone	ND	0.020									
Acetone	ND	0.075									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	0.00053	0.0050									J
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0020									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00162	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85337

Sample ID: VBLK120312-2	SampType: MBLK	TestCode: VOC_ENCOD	Units: mg/Kg	Prep Date:			Run ID: VOA-2_121203A				
Client ID: ZZZZZ	Batch ID: R85337	TestNo: SW5035/8260		Analysis Date: 12/3/2012			SeqNo: 2298727				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0020									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.015									
Sample ID: VLCS120312-2	SampType: LCS	TestCode: VOC_ENCOD	Units: mg/Kg	Prep Date:			Run ID: VOA-2_121203A				
Client ID: ZZZZZ	Batch ID: R85337	TestNo: SW5035/8260		Analysis Date: 12/3/2012			SeqNo: 2298728				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05564	0.0050	0.05	0	111	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.05263	0.0050	0.05	0	105	70	130	0	0		
1,1,2-Trichloroethane	0.04958	0.0050	0.05	0	99.2	70	130	0	0		
1,1-Dichloroethane	0.05189	0.0050	0.05	0	104	70	130	0	0		
1,1-Dichloroethene	0.05258	0.0050	0.05	0	105	70	130	0	0		
1,2-Dichloroethane	0.0527	0.0050	0.05	0	105	70	130	0	0		
1,2-Dichloropropane	0.05123	0.0050	0.05	0	102	70	130	0	0		
2-Butanone	0.1171	0.075	0.1	0	117	70	130	0	0		
2-Hexanone	0.1034	0.020	0.1	0	103	70	130	0	0		
4-Methyl-2-pentanone	0.1044	0.020	0.1	0	104	70	130	0	0		
Acetone	0.1102	0.075	0.1	0	110	50	150	0	0		
Benzene	0.05127	0.0050	0.05	0	103	70	130	0	0		
Bromodichloromethane	0.05218	0.0050	0.05	0	104	70	130	0	0		
Bromoform	0.04992	0.0050	0.05	0	99.8	70	130	0	0		
Bromomethane	0.03697	0.010	0.05	0	73.9	70	130	0	0		
Carbon disulfide	0.1116	0.050	0.1	0	112	70	130	0	0		
Carbon tetrachloride	0.05347	0.0050	0.05	0	107	70	130	0	0		
Chlorobenzene	0.05619	0.0050	0.05	0	112	70	130	0	0		
Chloroethane	0.05495	0.010	0.05	0	110	70	130	0	0		
Chloroform	0.0512	0.0050	0.05	0.00053	101	70	130	0	0		
Chloromethane	0.05435	0.010	0.05	0	109	70	130	0	0		
cis-1,2-Dichloroethene	0.05301	0.0050	0.05	0	106	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85337

Sample ID: VLCS120312-2	SampType: LCS	TestCode: VOC_ENCOR Units: mg/Kg			Prep Date:			Run ID: VOA-2_121203A			
Client ID: ZZZZZ	Batch ID: R85337	TestNo: SW5035/8260			Analysis Date: 12/3/2012			SeqNo: 2298728			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.05213	0.0020	0.05	0	104	70	130	0	0	0	
Dibromochloromethane	0.05229	0.0050	0.05	0	105	70	130	0	0	0	
Ethylbenzene	0.05084	0.0050	0.05	0	102	70	130	0	0	0	
Methyl tert-butyl ether	0.05436	0.0050	0.05	0	109	70	130	0	0	0	
Methylene chloride	0.04828	0.010	0.05	0.00162	93.3	70	130	0	0	0	
Styrene	0.04988	0.0050	0.05	0	99.8	70	130	0	0	0	
Tetrachloroethene	0.05209	0.0050	0.05	0	104	70	130	0	0	0	
Toluene	0.05328	0.0050	0.05	0	107	70	130	0	0	0	
trans-1,2-Dichloroethene	0.05045	0.0050	0.05	0	101	70	130	0	0	0	
trans-1,3-Dichloropropene	0.0549	0.0020	0.05	0	110	70	130	0	0	0	
Trichloroethene	0.05196	0.0050	0.05	0	104	70	130	0	0	0	
Vinyl chloride	0.04845	0.0050	0.05	0	96.9	70	130	0	0	0	
Xylenes, Total	0.1641	0.015	0.15	0	109	70	130	0	0	0	

Sample ID: VLCSD120312-2	SampType: LCSD	TestCode: VOC_ENCOR Units: mg/Kg			Prep Date:			Run ID: VOA-2_121203A			
Client ID: ZZZZZ	Batch ID: R85337	TestNo: SW5035/8260			Analysis Date: 12/3/2012			SeqNo: 2298729			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05182	0.0050	0.05	0	104	70	130	0.05564	7.11	20	
1,1,2,2-Tetrachloroethane	0.05036	0.0050	0.05	0	101	70	130	0.05263	4.41	20	
1,1,2-Trichloroethane	0.04881	0.0050	0.05	0	97.6	70	130	0.04958	1.57	20	
1,1-Dichloroethane	0.04872	0.0050	0.05	0	97.4	70	130	0.05189	6.30	20	
1,1-Dichloroethene	0.04796	0.0050	0.05	0	95.9	70	130	0.05258	9.19	20	
1,2-Dichloroethane	0.04867	0.0050	0.05	0	97.3	70	130	0.0527	7.95	20	
1,2-Dichloropropane	0.05019	0.0050	0.05	0	100	70	130	0.05123	2.05	20	
2-Butanone	0.1	0.075	0.1	0	100	70	130	0.1171	15.7	20	
2-Hexanone	0.09635	0.020	0.1	0	96.4	70	130	0.1034	7.11	20	
4-Methyl-2-pentanone	0.09806	0.020	0.1	0	98.1	70	130	0.1044	6.30	20	
Acetone	0.1035	0.075	0.1	0	104	50	150	0.1102	6.31	20	
Benzene	0.05017	0.0050	0.05	0	100	70	130	0.05127	2.17	20	
Bromodichloromethane	0.04925	0.0050	0.05	0	98.5	70	130	0.05218	5.78	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 * - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
 E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85337

Sample ID: VLCSD120312-2	SampType: LCSD	TestCode: VOC_ENCOR Units: mg/Kg			Prep Date:			Run ID: VOA-2_121203A			
Client ID: ZZZZZ	Batch ID: R85337	TestNo: SW5035/8260			Analysis Date: 12/3/2012			SeqNo: 2298729			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04811	0.0050	0.05	0	96.2	70	130	0.04992	3.69	20	
Bromomethane	0.04063	0.010	0.05	0	81.3	70	130	0.03697	9.43	20	
Carbon disulfide	0.1022	0.050	0.1	0	102	70	130	0.1116	8.82	20	
Carbon tetrachloride	0.05188	0.0050	0.05	0	104	70	130	0.05347	3.02	20	
Chlorobenzene	0.05496	0.0050	0.05	0	110	70	130	0.05619	2.21	20	
Chloroethane	0.0512	0.010	0.05	0	102	70	130	0.05495	7.07	20	
Chloroform	0.04819	0.0050	0.05	0.00053	95.3	70	130	0.0512	6.06	20	
Chloromethane	0.04877	0.010	0.05	0	97.5	70	130	0.05435	10.8	20	
cis-1,2-Dichloroethene	0.04856	0.0050	0.05	0	97.1	70	130	0.05301	8.76	20	
cis-1,3-Dichloropropene	0.05027	0.0020	0.05	0	101	70	130	0.05213	3.63	20	
Dibromochloromethane	0.04835	0.0050	0.05	0	96.7	70	130	0.05229	7.83	20	
Ethylbenzene	0.04924	0.0050	0.05	0	98.5	70	130	0.05084	3.20	20	
Methyl tert-butyl ether	0.05096	0.0050	0.05	0	102	70	130	0.05436	6.46	20	
Methylene chloride	0.04653	0.010	0.05	0.00162	89.8	70	130	0.04828	3.69	20	
Styrene	0.0497	0.0050	0.05	0	99.4	70	130	0.04988	0.362	20	
Tetrachloroethene	0.04908	0.0050	0.05	0	98.2	70	130	0.05209	5.95	20	
Toluene	0.05171	0.0050	0.05	0	103	70	130	0.05328	2.99	20	
trans-1,2-Dichloroethene	0.04495	0.0050	0.05	0	89.9	70	130	0.05045	11.5	20	
trans-1,3-Dichloropropene	0.05132	0.0020	0.05	0	103	70	130	0.0549	6.74	20	
Trichloroethene	0.04809	0.0050	0.05	0	96.2	70	130	0.05196	7.74	20	
Vinyl chloride	0.04467	0.0050	0.05	0	89.3	70	130	0.04845	8.12	20	
Xylenes, Total	0.1554	0.015	0.15	0	104	70	130	0.1641	5.46	20	

Qualifiers:
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* - Non Accredited Parameter

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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

STAT Analysis Corporation

CLIENT: Weston Solutions

Work Order: 12110922

Project: Lowenthal Metals Chicago, IL

Test No: SW8270C Matrix: S

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-66366-SVOC	68.2	69.6	61.1	74.5	67.6	73.7	67.2	98.7
LCS-66366-SVOC	56.0	56.0	54.1	72.4	53.3	60.8	58.4	84.5
12110851-001BMS	73.2	71.9	71.1	90.7	68.8	79.6	76.1	93.6
12110851-001BMSD	69.5	67.2	67.9	89.6	65.4	76.7	72.7	87.6
12110922-020B	63.3	59.2	63.4	90.1	55.0	68.3	82.8	110
12110922-021B	68.9	65.4	65.7	89.8	63.1	72.6	77.3	97.2
12110922-022B	68.2	66.2	74.2	103	60.0	78.4	87.8	110

Acronym	Surrogate	QC Limits
CLPH2D4	= 2-Chlorophenol-d4	20-130
DCBZ12D4	= 1,2-Dichlorobenzene-d4	20-130
NO2BZD5	= Nitrobenzene-d5	23-120
PH246BR	= 2,4,6-Tribromophenol	19-122
PH2F	= 2-Fluorophenol	25-121
PHD5	= Phenol-d5	24-113
PHEN2F	= 2-Fluorobiphenyl	30-115
PHEND14	= 4-Terphenyl-d14	18-137

* Surrogate recovery outside acceptance limits

Prep Start Date: 11/29/2012 11:40:0

Prep End Date:

Prep Factor Units:

mL / Kg

Prep Batch 66366 Prep Code: 3550_SVOC Technician: IP

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-66366-SVOC			0.03	0	0	1	33.333	11/29/2012	11/29/2012
LCS-66366-SVOC			0.03	0	0	1	33.333	11/29/2012	11/29/2012
12110851-001B	Soil		0.03035	0	0	1	32.949	11/29/2012	11/29/2012
12110871-001A	Soil		0.03055	0	0	1	32.733	11/29/2012	11/29/2012
12110871-002A	Soil		0.03019	0	0	1	33.124	11/29/2012	11/29/2012
12110871-003A	Soil		0.03017	0	0	1	33.146	11/29/2012	11/29/2012
12110920-001B	Soil		0.03059	0	0	1	32.690	11/29/2012	11/29/2012
12110922-020B	Soil		0.0304	0	0	10	328.947	11/29/2012	11/29/2012
12110922-021B	Soil		0.03024	0	0	1	33.069	11/29/2012	11/29/2012
12110922-022B	Soil		0.03053	0	0	10	327.547	11/29/2012	11/29/2012
12110924-009B	Soil		0.03014	0	0	1	33.179	11/29/2012	11/29/2012
12110924-012B	Soil		0.03068	0	0	1	32.595	11/29/2012	11/29/2012
12110924-014B	Soil		0.03037	0	0	10	329.272	11/29/2012	11/29/2012
12110924-020B	Soil		0.03013	0	0	1	33.190	11/29/2012	11/29/2012
12110924-034B	Soil		0.03029	0	0	1	33.014	11/29/2012	11/29/2012
12110924-036B	Soil		0.03043	0	0	1	32.862	11/29/2012	11/29/2012
12110936-001B	Soil		0.03065	0	0	1	32.626	11/29/2012	11/29/2012
12110936-002B	Soil		0.03058	0	0	1	32.701	11/29/2012	11/29/2012
12110936-003B	Soil		0.0303	0	0	1	33.003	11/29/2012	11/29/2012
12110851-001BMS	Soil		0.03034	0	0	1	32.960	11/29/2012	11/29/2012
12110851-001BMSD	Soil		0.03041	0	0	1	32.884	11/29/2012	11/29/2012
12110941-001A	Soil		0.03024	0	0	1	33.069	11/30/2012	11/30/2012
12110964-001A	Soil		0.03007	0	0	1	33.256	11/30/2012	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66366

Sample ID: MB-66366-SVOC	SampType: MBLK	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A						
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2296913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.033									
Acenaphthylene	ND	0.033									
Aniline	ND	0.33									
Anthracene	ND	0.033									
Benz(a)anthracene	ND	0.033									
Benzidine	ND	0.33									
Benzo(a)pyrene	ND	0.033									
Benzo(b)fluoranthene	ND	0.033									
Benzo(g,h,i)perylene	ND	0.033									
Benzo(k)fluoranthene	ND	0.033									
Benzoic acid	ND	0.83									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.83									
4-Bromophenyl phenyl ether	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chloro-3-methylphenol	ND	0.33									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
Chrysene	ND	0.033									
Dibenz(a,h)anthracene	ND	0.033									
Dibenzofuran	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
3,3'-Dichlorobenzidine	ND	0.17									
2,4-Dichlorophenol	ND	0.17									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66366

Sample ID: MB-66366-SVOC	SampType: MBLK	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A						
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2296913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethyl phthalate	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
Dimethyl phthalate	ND	0.17									
4,6-Dinitro-2-methylphenol	ND	0.33									
2,4-Dinitrophenol	ND	0.83									
2,4-Dinitrotoluene	ND	0.033									
2,6-Dinitrotoluene	ND	0.033									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Fluoranthene	ND	0.033									
Fluorene	ND	0.033									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.033									
Isophorone	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
4-Methylphenol	ND	0.17									
Naphthalene	ND	0.033									
2-Nitroaniline	ND	0.17									
3-Nitroaniline	ND	0.17									
4-Nitroaniline	ND	0.17									
2-Nitrophenol	ND	0.17									
4-Nitrophenol	ND	0.33									
Nitrobenzene	ND	0.033									
N-Nitrosodi-n-propylamine	ND	0.033									
N-Nitrosodimethylamine	ND	0.17									
N-Nitrosodiphenylamine	ND	0.033									
2, 2'-oxybis(1-Chloropropane)	ND	0.17									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66366

Sample ID: MB-66366-SVOC	SampType: MBLK	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A						
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2296913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pentachlorophenol	ND	0.033
Phenanthrene	ND	0.033
Phenol	ND	0.17
Pyrene	ND	0.033
Pyridine	ND	0.67
1,2,4-Trichlorobenzene	ND	0.17
2,4,5-Trichlorophenol	ND	0.17
2,4,6-Trichlorophenol	ND	0.17

Sample ID: LCS-66366-SVOC	SampType: LCS	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A						
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2296947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	1.083	0.033	1.667	0	64.9	37	134	0	0	0
4-Chloro-3-methylphenol	2.369	0.33	3.333	0	71.1	29	134	0	0	0
2-Chlorophenol	2.108	0.17	3.333	0	63.3	29	105	0	0	0
1,4-Dichlorobenzene	0.9233	0.17	1.667	0	55.4	26	111	0	0	0
2,4-Dinitrotoluene	1.141	0.033	1.667	0	68.5	46	125	0	0	0
4-Nitrophenol	2.634	0.33	3.333	0	79	12	146	0	0	0
N-Nitrosodi-n-propylamine	0.8813	0.033	1.667	0	52.9	29	109	0	0	0
Pentachlorophenol	1.016	0.033	3.333	0	30.5	10	192	0	0	0
Phenol	2.219	0.17	3.333	0	66.6	27	104	0	0	0
Pyrene	1.443	0.033	1.667	0	86.6	42	148	0	0	0
1,2,4-Trichlorobenzene	0.9217	0.17	1.667	0	55.3	55	106	0	0	0

Sample ID: 12110851-001BMS	SampType: MS	TestCode: SVOC_SOIL	Units: mg/Kg-dry	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A						
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2297322						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	1.573	0.037	1.869	0	84.1	24	139	0	0	0
4-Chloro-3-methylphenol	3.47	0.37	3.737	0	92.9	28	121	0	0	0

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	*	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66366

Sample ID: 12110851-001BMS	SampType: MS	TestCode: SVOC_SOIL	Units: mg/Kg-dry	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2297322
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
2-Chlorophenol	3.096	0.19	3.737	0	82.9
1,4-Dichlorobenzene	1.333	0.19	1.869	0	71.3
2,4-Dinitrotoluene	1.524	0.037	1.869	0	81.6
4-Nitrophenol	3.66	0.37	3.737	0	98
N-Nitrosodi-n-propylamine	1.316	0.037	1.869	0	70.4
Pentachlorophenol	1.76	0.037	3.737	0	47.1
Phenol	3.299	0.19	3.737	0	88.3
Pyrene	1.852	0.037	1.869	0.0254	97.7
1,2,4-Trichlorobenzene	1.389	0.19	1.869	0	74.3
<hr/>					
Sample ID: 12110851-001BMSD	SampType: MSD	TestCode: SVOC_SOIL	Units: mg/Kg-dry	Prep Date: 11/29/2012	Run ID: SVOC-5_121129A
Client ID: ZZZZZ	Batch ID: 66366	TestNo: SW8270C		Analysis Date: 11/29/2012	SeqNo: 2297325
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	1.534	0.037	1.865	0	82.3
4-Chloro-3-methylphenol	3.362	0.37	3.728	0	90.2
2-Chlorophenol	2.93	0.19	3.728	0	78.6
1,4-Dichlorobenzene	1.269	0.19	1.865	0	68.1
2,4-Dinitrotoluene	1.433	0.037	1.865	0	76.9
4-Nitrophenol	3.403	0.37	3.728	0	91.3
N-Nitrosodi-n-propylamine	1.224	0.037	1.865	0	65.7
Pentachlorophenol	1.618	0.037	3.728	0	43.4
Phenol	3.124	0.19	3.728	0	83.8
Pyrene	1.786	0.037	1.865	0.0254	94.4
1,2,4-Trichlorobenzene	1.282	0.19	1.865	0	68.8

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

STAT Analysis Corporation

CLIENT: Weston Solutions

Work Order: 12110922

Project: Lowenthal Metals Chicago, IL

Test No: SW8082 Matrix: S

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID CL10BZ2 XYL2456CLM

MB-66386-PP	57.6	87.9						
LCS-66386-PCB	73.7	85.9						
12110979-001AMS	96.0	55.6						
12110979-001AMSD	56.6	40.4						
12110922-020B	85.9	34.3						
12110922-021B	84.8	32.3						
12110922-022B	68.7	32.3						

Acronym	Surrogate	QC Limits
CL10BZ2	= Decachlorobiphenyl	30-150
XYL2456CLM	= Tetrachloro-m-xylene	30-150

* Surrogate recovery outside acceptance limits

Prep Start Date: 11/30/2012 2:44:16

Prep End Date:

Prep Factor Units:

mL / Kg

Prep Batch 66386 Prep Code: 3550_PP Technician: FAC

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-66386-PP			0.03	0	0	10	333.333	11/30/2012	11/30/2012
LCS-66386-PCB			0.03	0	0	10	333.333	11/30/2012	11/30/2012
LCS-66386-PEST			0.03	0	0	10	333.333	11/30/2012	11/30/2012
12110920-001B	Soil		0.03052	0	0	10	327.654	11/30/2012	11/30/2012
12110922-020B	Soil		0.03063	0	0	10	326.477	11/30/2012	11/30/2012
12110922-021B	Soil		0.03014	0	0	10	331.785	11/30/2012	11/30/2012
12110922-022B	Soil		0.03008	0	0	10	332.447	11/30/2012	11/30/2012
12110941-001A	Soil		0.03016	0	0	10	331.565	11/30/2012	11/30/2012
12110961-002A	Soil		0.01504	0	0	10	664.894	11/30/2012	11/30/2012
12110964-001A	Soil		0.03016	0	0	10	331.565	11/30/2012	11/30/2012
12110974-001A	Soil		0.0303	0	0	10	330.033	11/30/2012	11/30/2012
12110974-002A	Soil		0.03018	0	0	10	331.345	11/30/2012	11/30/2012
12110974-003A	Soil		0.03045	0	0	10	328.407	11/30/2012	11/30/2012
12110974-004A	Soil		0.03055	0	0	10	327.332	11/30/2012	11/30/2012
12110974-005A	Soil		0.03006	0	0	10	332.668	11/30/2012	11/30/2012
12110974-006B	Soil		0.03068	0	0	10	325.945	11/30/2012	11/30/2012
12110974-007A	Soil		0.03022	0	0	10	330.907	11/30/2012	11/30/2012
12110979-001A	Soil		0.03014	0	0	10	331.785	11/30/2012	11/30/2012
12110979-001AMS	Soil		0.03014	0	0	10	331.785	11/30/2012	11/30/2012
12110979-001AMSD	Soil		0.03013	0	0	10	331.895	11/30/2012	11/30/2012
12110922-021BMST	Soil		0.03015	0	0	10	331.675	11/30/2012	11/30/2012
12110922-021BMSDT	Soil		0.03016	0	0	10	331.565	11/30/2012	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66386

Sample ID: MB-66386-PP	SampType: MLBK	TestCode: PCB_SOIL	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8082		Analysis Date: 11/30/2012	SeqNo: 2298287						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.080									
Aroclor 1221	ND	0.080									
Aroclor 1232	ND	0.080									
Aroclor 1242	ND	0.080									
Aroclor 1248	ND	0.080									
Aroclor 1254	ND	0.080									
Aroclor 1260	ND	0.080									
Sample ID: LCS-66386-PCB	SampType: LCS	TestCode: PCB_SOIL	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8082		Analysis Date: 11/30/2012	SeqNo: 2298288						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.3074	0.080	0.333	0	92.3	30	150	0	0		
Aroclor 1260	0.1904	0.080	0.333	0	57.2	30	150	0	0		
Sample ID: 12110979-001AMS	SampType: MS	TestCode: PCB_SOIL	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8082		Analysis Date: 11/30/2012	SeqNo: 2298946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.34	0.084	0.3516	0	96.7	30	150	0	0		
Aroclor 1260	0.252	0.084	0.3516	0	71.7	30	150	0	0		
Sample ID: 12110979-001AMSD	SampType: MSD	TestCode: PCB_SOIL	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8082		Analysis Date: 11/30/2012	SeqNo: 2298949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.3444	0.085	0.3518	0	97.9	30	150	0.34	1.27	25	
Aroclor 1260	0.252	0.085	0.3518	0	71.6	30	150	0.252	0.0227	25	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

STAT Analysis Corporation

CLIENT: Weston Solutions

Work Order: 12110922

Project: Lowenthal Metals Chicago, IL

Test No: SW8081 Matrix: S

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID CL10BZ2 XYL2456CLM

MB-66386-PP	77.8	101						
LCS-66386-PEST	99.0	67.7						
12110922-020B	86.9	40.4						
12110922-021B	103	31.3						
12110922-022B	67.7	36.4						
12110922-021BMST	60.6	33.3						
12110922-021BMSDT	40.4	31.3						

Acronym	Surrogate	QC Limits
CL10BZ2	= Decachlorobiphenyl	30-150
XYL2456CLM	= Tetrachloro-m-xylene	30-150

* Surrogate recovery outside acceptance limits

Prep Start Date: 11/30/2012 2:44:16

Prep End Date:

Prep Factor Units:

mL / Kg

Prep Batch 66386 Prep Code: 3550_PP Technician: FAC

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-66386-PP			0.03	0	0	10	333.333	11/30/2012	11/30/2012
LCS-66386-PCB			0.03	0	0	10	333.333	11/30/2012	11/30/2012
LCS-66386-PEST			0.03	0	0	10	333.333	11/30/2012	11/30/2012
12110920-001B	Soil		0.03052	0	0	10	327.654	11/30/2012	11/30/2012
12110922-020B	Soil		0.03063	0	0	10	326.477	11/30/2012	11/30/2012
12110922-021B	Soil		0.03014	0	0	10	331.785	11/30/2012	11/30/2012
12110922-022B	Soil		0.03008	0	0	10	332.447	11/30/2012	11/30/2012
12110941-001A	Soil		0.03016	0	0	10	331.565	11/30/2012	11/30/2012
12110961-002A	Soil		0.01504	0	0	10	664.894	11/30/2012	11/30/2012
12110964-001A	Soil		0.03016	0	0	10	331.565	11/30/2012	11/30/2012
12110974-001A	Soil		0.0303	0	0	10	330.033	11/30/2012	11/30/2012
12110974-002A	Soil		0.03018	0	0	10	331.345	11/30/2012	11/30/2012
12110974-003A	Soil		0.03045	0	0	10	328.407	11/30/2012	11/30/2012
12110974-004A	Soil		0.03055	0	0	10	327.332	11/30/2012	11/30/2012
12110974-005A	Soil		0.03006	0	0	10	332.668	11/30/2012	11/30/2012
12110974-006B	Soil		0.03068	0	0	10	325.945	11/30/2012	11/30/2012
12110974-007A	Soil		0.03022	0	0	10	330.907	11/30/2012	11/30/2012
12110979-001A	Soil		0.03014	0	0	10	331.785	11/30/2012	11/30/2012
12110979-001AMS	Soil		0.03014	0	0	10	331.785	11/30/2012	11/30/2012
12110979-001AMSD	Soil		0.03013	0	0	10	331.895	11/30/2012	11/30/2012
12110922-021BMST	Soil		0.03015	0	0	10	331.675	11/30/2012	11/30/2012
12110922-021BMSDT	Soil		0.03016	0	0	10	331.565	11/30/2012	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66386

Sample ID: MB-66386-PP	SampType: MBLK	TestCode: PEST_SOIL	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8081		Analysis Date: 11/30/2012	SeqNo: 2298285
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
4,4'-DDD	ND	0.0016			
4,4'-DDE	ND	0.0016			
4,4'-DDT	ND	0.0016			
Aldrin	ND	0.0016			
alpha-BHC	ND	0.0016			
alpha-Chlordane	ND	0.0016			
beta-BHC	ND	0.0016			
Chlordane	ND	0.016			
delta-BHC	ND	0.0016			
Dieldrin	ND	0.0016			
Endosulfan I	ND	0.0016			
Endosulfan II	ND	0.0016			
Endosulfan sulfate	ND	0.0016			
Endrin	ND	0.0016			
Endrin aldehyde	ND	0.0016			
Endrin ketone	ND	0.0016			
gamma-BHC	ND	0.0016			
gamma-Chlordane	ND	0.0016			
Heptachlor	ND	0.0016			
Heptachlor epoxide	ND	0.0016			
Methoxychlor	ND	0.0016			
Toxaphene	ND	0.033			

Sample ID: LCS-66386-PEST	SampType: LCS	TestCode: PEST_SOIL	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8081		Analysis Date: 11/30/2012	SeqNo: 2298289
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
4,4'-DDD	0.016	0.0016	0.0167	0	95.8
4,4'-DDE	0.01633	0.0016	0.0167	0	97.8
4,4'-DDT	0.01733	0.0016	0.0167	0	104
Aldrin	0.01433	0.0016	0.0167	0	85.8

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	*	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66386

Sample ID: LCS-66386-PEST	SampType: LCS	TestCode: PEST_SOIL	Units: mg/Kg	Prep Date: 11/30/2012			Run ID: GC-ECD_121130A				
Client ID: ZZZZZ	Batch ID: 66386	TestNo: SW8081		Analysis Date: 11/30/2012			SeqNo: 2298289				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.01433	0.0016	0.0167	0	85.8	30	150	0	0	0	
alpha-Chlordane	0.015	0.0016	0.0167	0	89.8	30	150	0	0	0	
beta-BHC	0.01367	0.0016	0.0167	0	81.8	30	150	0	0	0	
delta-BHC	0.01167	0.0016	0.0167	0	69.9	30	150	0	0	0	
Dieldrin	0.01533	0.0016	0.0167	0	91.8	30	150	0	0	0	
Endosulfan I	0.01567	0.0016	0.0167	0	93.8	30	150	0	0	0	
Endosulfan II	0.016	0.0016	0.0167	0	95.8	30	150	0	0	0	
Endosulfan sulfate	0.02167	0.0016	0.0167	0	130	30	150	0	0	0	
Endrin	0.014	0.0016	0.0167	0	83.8	30	150	0	0	0	
Endrin aldehyde	0.01533	0.0016	0.0167	0	91.8	30	150	0	0	0	
Endrin ketone	0.01767	0.0016	0.0167	0	106	30	150	0	0	0	
gamma-BHC	0.014	0.0016	0.0167	0	83.8	30	150	0	0	0	
gamma-Chlordane	0.01533	0.0016	0.0167	0	91.8	30	150	0	0	0	
Heptachlor	0.013	0.0016	0.0167	0	77.8	30	150	0	0	0	
Heptachlor epoxide	0.01467	0.0016	0.0167	0	87.8	30	150	0	0	0	
Methoxychlor	0.01533	0.0016	0.0167	0	91.8	30	150	0	0	0	
Sample ID: 12110922-021BMST	SampType: MS	TestCode: PEST_SOIL	Units: mg/Kg-dry	Prep Date: 11/30/2012			Run ID: GC-ECD_121130A				
Client ID: LM-SB16-(24-36)-11	Batch ID: 66386	TestNo: SW8081		Analysis Date: 11/30/2012			SeqNo: 2298312				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.01563	0.0018	0.0191	0	81.8	30	150	0	0	0	
4,4'-DDE	0.01029	0.0018	0.0191	0	53.9	30	150	0	0	0	
4,4'-DDT	0.0183	0.0018	0.0191	0	95.8	30	150	0	0	0	
Aldrin	0.008387	0.0018	0.0191	0	43.9	30	150	0	0	0	
alpha-BHC	0.008768	0.0018	0.0191	0	45.9	30	150	0	0	0	
alpha-Chlordane	0.009912	0.0018	0.0191	0	51.9	30	150	0	0	0	
beta-BHC	0.008768	0.0018	0.0191	0	45.9	30	150	0	0	0	
delta-BHC	0.009912	0.0018	0.0191	0	51.9	30	150	0	0	0	
Dieldrin	0.007625	0.0018	0.0191	0	39.9	30	150	0	0	0	
Endosulfan I	0.01106	0.0018	0.0191	0	57.9	30	150	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66386

Sample ID: 12110922-021BMST	SampType: MS	TestCode: PEST_SOIL	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66386	TestNo: SW8081	Analysis Date: 11/30/2012		SeqNo: 2298312						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endosulfan II	0.008006	0.0018	0.0191	0	41.9	30	150	0	0	0	
Endosulfan sulfate	0.01029	0.0018	0.0191	0	53.9	30	150	0	0	0	
Endrin	0.01067	0.0018	0.0191	0	55.9	30	150	0	0	0	
Endrin aldehyde	0.01944	0.0018	0.0191	0	102	30	150	0	0	0	
Endrin ketone	0.02287	0.0018	0.0191	0	120	30	150	0	0	0	
gamma-BHC	0.006481	0.0018	0.0191	0	33.9	30	150	0	0	0	
gamma-Chlordane	0.00915	0.0018	0.0191	0	47.9	30	150	0	0	0	
Heptachlor	0.008006	0.0018	0.0191	0	41.9	30	150	0	0	0	
Heptachlor epoxide	0.00915	0.0018	0.0191	0	47.9	30	150	0	0	0	
Methoxychlor	0.0122	0.0018	0.0191	0	63.9	30	150	0	0	0	
Sample ID: 12110922-021BMSD	SampType: MSD	TestCode: PEST_SOIL	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66386	TestNo: SW8081	Analysis Date: 11/30/2012		SeqNo: 2298313						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0.01448	0.0018	0.01909	0	75.8	30	150	0.01563	7.63	25	
4,4'-DDE	0.01143	0.0018	0.01909	0	59.9	30	150	0.01029	10.5	25	
4,4'-DDT	0.01524	0.0018	0.01909	0	79.8	30	150	0.0183	18.2	25	
Aldrin	0.008766	0.0018	0.01909	0	45.9	30	150	0.008387	4.41	25	
alpha-BHC	0.00686	0.0018	0.01909	0	35.9	30	150	0.008768	24.4	25	
alpha-Chlordane	0.01105	0.0018	0.01909	0	57.9	30	150	0.009912	10.9	25	
beta-BHC	0.00686	0.0018	0.01909	0	35.9	30	150	0.008768	24.4	25	
delta-BHC	0.008384	0.0018	0.01909	0	43.9	30	150	0.009912	16.7	25	
Dieldrin	0.008766	0.0018	0.01909	0	45.9	30	150	0.007625	13.9	25	
Endosulfan I	0.01258	0.0018	0.01909	0	65.9	30	150	0.01106	12.9	25	
Endosulfan II	0.00686	0.0018	0.01909	0	35.9	30	150	0.008006	15.4	25	
Endosulfan sulfate	0.008766	0.0018	0.01909	0	45.9	30	150	0.01029	16.0	25	
Endrin	0.01067	0.0018	0.01909	0	55.9	30	150	0.01067	0.0332	25	
Endrin aldehyde	0.02058	0.0018	0.01909	0	108	30	150	0.01944	5.68	25	
Endrin ketone	0.02706	0.0018	0.01909	0	142	30	150	0.02287	16.8	25	
gamma-BHC	0.008003	0.0018	0.01909	0	41.9	30	150	0.006481	21.0	25	

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66386

Sample ID: 12110922-021BMSD	SampType: MSD	TestCode: PEST_SOIL	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: GC-ECD_121130A						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66386	TestNo: SW8081	Analysis Date: 11/30/2012		SeqNo: 2298313						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-Chlordane	0.009909	0.0018	0.01909	0	51.9	30	150	0.00915	7.97	25	
Heptachlor	0.006479	0.0018	0.01909	0	33.9	30	150	0.008006	21.1	25	
Heptachlor epoxide	0.007622	0.0018	0.01909	0	39.9	30	150	0.00915	18.2	25	
Methoxychlor	0.0141	0.0018	0.01909	0	73.9	30	150	0.0122	14.5	25	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: 11/30/2012 11:30:0

Prep End Date: 11/30/2012 2:00:00

Prep Factor Units:

mL / g

Prep Batch 66384 Prep Code: M_S_PREP Technician: MDDT

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS1 11/30/12			1	0	0	50	50.000	11/30/2012	11/30/2012
ILCSS1 11/30/12			1	0	0	50	50.000	11/30/2012	11/30/2012
12110899-001A	Product		1.035	0	0	50	48.309	11/30/2012	11/30/2012
12110900-001A	Product		1.032	0	0	50	48.450	11/30/2012	11/30/2012
12110922-001A	Soil		0.906	0	0	50	55.188	11/30/2012	11/30/2012
12110922-021B	Soil		1.103	0	0	50	45.331	11/30/2012	11/30/2012
12110922-021BMS	Soil		1.108	0	0	50	45.126	11/30/2012	11/30/2012
12110922-021BMSD	Soil		1.103	0	0	50	45.331	11/30/2012	11/30/2012
12110964-001A	Soil		0.841	0	0	50	59.453	11/30/2012	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66384

Sample ID: IMBS1 11/30/12	SampType: MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS_121130A						
Client ID: ZZZZZ	Batch ID: 66384	TestNo: SW6020		Analysis Date: 11/30/2012	SeqNo: 2298185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									
Barium	ND	0.50									
Cadmium	ND	0.25									
Chromium	0.2275	0.50									J
Copper	0.3685	1.2									J
Lead	0.183	0.25									J
Manganese	0.2635	0.50									J
Silver	0.043	0.50									J
Zinc	ND	2.5									
Sample ID: IMBS1 11/30/12	SampType: MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS_121203B						
Client ID: ZZZZZ	Batch ID: 66384	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.50									
Sample ID: ILCSS1 11/30/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS_121130A						
Client ID: ZZZZZ	Batch ID: 66384	TestNo: SW6020		Analysis Date: 11/30/2012	SeqNo: 2298187						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	28.51	0.50	25	0	114	80	120	0	0		
Barium	29.34	0.50	25	0	117	80	120	0	0		
Copper	28.96	1.2	25	0.3685	114	80	120	0	0		
Lead	28.02	0.25	25	0.183	111	80	120	0	0		
Manganese	30.21	0.50	25	0.2635	120	80	120	0	0		
Zinc	26.54	2.5	25	0	106	80	120	0	0		
Sample ID: ILCSS1 11/30/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS_121203B						
Client ID: ZZZZZ	Batch ID: 66384	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66384

Sample ID: ILCSS1 11/30/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS_121203B						
Client ID: ZZZZZ	Batch ID: 66384	TestNo: SW6020	Analysis Date: 12/3/2012		SeqNo: 2298644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	29.36	0.50	25	0	117	80	120	0	0	0	
Selenium	25.88	0.50	25	0	104	80	120	0	0	0	
Silver	11.22	0.50	10	0.039	112	80	120	0	0	0	
Sample ID: 12110922-021BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS_121130A						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66384	TestNo: SW6020	Analysis Date: 11/30/2012		SeqNo: 2298192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	33.52	1.0	25.93	14.57	73.1	75	125	0	0	0	S
Barium	205.5	1.0	25.93	231.6	-101	75	125	0	0	0	S
Cadmium	50.8	0.52	25.93	24.91	99.8	75	125	0	0	0	
Chromium	32.89	1.0	25.93	13.58	74.4	75	125	0	0	0	S
Manganese	213.6	1.0	25.93	188.9	95.1	75	125	0	0	0	
Silver	32.36	1.0	10.37	1.748	295	75	125	0	0	0	S
Sample ID: 12110922-021BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS_121203B						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66384	TestNo: SW6020	Analysis Date: 12/3/2012		SeqNo: 2298646						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	4652	130	25.93	2141	9680	75	125	0	0	0	S
Lead	8029	26	25.93	7414	2370	75	125	0	0	0	S
Selenium	45.73	52	25.93	50.18	-17.2	75	125	0	0	0	JS
Zinc	14700	260	25.93	13640	4080	75	125	0	0	0	S
Sample ID: 12110922-021BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS_121130A						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66384	TestNo: SW6020	Analysis Date: 11/30/2012		SeqNo: 2298193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	28.42	1.0	26.05	14.57	53.2	75	125	33.52	16.5	20	S
Barium	152.1	1.0	26.05	231.6	-305	75	125	205.5	29.8	20	SR
Cadmium	37.85	0.52	26.05	24.91	49.7	75	125	50.8	29.2	20	SR

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66384

Sample ID: 12110922-021BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS_121130A						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66384	TestNo: SW6020	Analysis Date: 11/30/2012		SeqNo: 2298193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	26.29	1.0	26.05	13.58	48.8	75	125	32.89	22.3	20	SR
Manganese	188.7	1.0	26.05	188.9	-1	75	125	213.6	12.4	20	S
Silver	10.14	1.0	10.42	1.748	80.5	75	125	32.36	105	20	R
Sample ID: 12110922-021BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS_121203B						
Client ID: LM-SB16-(24-36)-11	Batch ID: 66384	TestNo: SW6020	Analysis Date: 12/3/2012		SeqNo: 2298649						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	2367	130	26.05	2141	866	75	125	4652	65.1	20	SR
Lead	4766	26	26.05	7414	-10200	75	125	8029	51.0	20	SR
Selenium	31.37	52	26.05	50.18	-72.2	75	125	45.73	0	20	JS
Zinc	11760	260	26.05	13640	-7220	75	125	14700	22.2	20	SR

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: 11/30/2012 1:45:00

Prep End Date: 11/30/2012 4:30:00

Prep Factor Units:

mL / g

Prep Batch 66385 Prep Code: M_S_PREP Technician: MDDT

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS2			11/30/12	1	0	0	50	50.000	11/30/2012
ILCSS2			11/30/12	1	0	0	50	50.000	11/30/2012
12110922-002A	Soil			0.909	0	0	50	55.006	11/30/2012
12110922-003A	Soil			0.939	0	0	50	53.248	11/30/2012
12110922-004A	Soil			0.928	0	0	50	53.879	11/30/2012
12110922-005A	Soil			1.179	0	0	50	42.409	11/30/2012
12110922-006A	Soil			0.906	0	0	50	55.188	11/30/2012
12110922-006AMS	Soil			0.902	0	0	50	55.432	11/30/2012
12110922-006AMSD	Soil			0.905	0	0	50	55.249	11/30/2012
12110922-007A	Soil			0.932	0	0	50	53.648	11/30/2012
12110922-008A	Soil			0.924	0	0	50	54.113	11/30/2012
12110922-009A	Soil			1.006	0	0	50	49.702	11/30/2012
12110922-010A	Soil			1.018	0	0	50	49.116	11/30/2012
12110922-011A	Soil			1.028	0	0	50	48.638	11/30/2012
12110922-012A	Soil			0.96	0	0	50	52.083	11/30/2012
12110922-013A	Soil			1.065	0	0	50	46.948	11/30/2012
12110922-014A	Soil			1.05	0	0	50	47.619	11/30/2012
12110922-015A	Soil			1.152	0	0	50	43.403	11/30/2012
12110922-016A	Soil			0.906	0	0	50	55.188	11/30/2012
12110922-017A	Soil			0.924	0	0	50	54.113	11/30/2012
12110922-018A	Soil			0.982	0	0	50	50.916	11/30/2012
12110922-019A	Soil			0.506	0	0	50	98.814	11/30/2012
12110922-020B	Soil			0.976	0	0	50	51.230	11/30/2012
12110922-022B	Soil			1.121	0	0	50	44.603	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66385

Sample ID: IMBS2 11/30/12	SampType: MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS-2_121203A						
Client ID: ZZZZZ	Batch ID: 66385	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.50									J
Barium	ND	0.50									
Cadmium	ND	0.25									
Chromium	ND	0.50									
Copper	ND	1.2									
Lead	0.118	0.25									
Manganese	ND	0.50									
Selenium	ND	0.50									
Silver	0.1665	0.50									J
Zinc	ND	2.5									

Sample ID: ILCSS2 11/30/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: ICPMS-2_121203A						
Client ID: ZZZZZ	Batch ID: 66385	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	25.55	0.50	25	0	102	80	120	0	0		
Barium	27.88	0.50	25	0	112	80	120	0	0		
Cadmium	27.17	0.25	25	0	109	80	120	0	0		
Chromium	26.81	0.50	25	0	107	80	120	0	0		
Copper	26	1.2	25	0	104	80	120	0	0		
Lead	26.54	0.25	25	0.118	106	80	120	0	0		
Manganese	26.92	0.50	25	0	108	80	120	0	0		
Selenium	23.56	0.50	25	0	94.2	80	120	0	0		
Silver	10.55	0.50	10	0.1665	104	80	120	0	0		
Zinc	24.22	2.5	25	0	96.9	80	120	0	0		

Sample ID: 12110922-006AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS-2_121203A						
Client ID: LM-SB23-(6-12)-112	Batch ID: 66385	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	27.75	1.3	31.28	8.284	62.2	75	125	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66385

Sample ID: 12110922-006AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS-2_121203A
Client ID: LM-SB23-(6-12)-112	Batch ID: 66385	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298874
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Barium	1192	1.3	31.28	1053	447
Cadmium	37.89	0.63	31.28	14.39	75.1
Chromium	36.79	1.3	31.28	58.13	-68.2
Copper	2286	3.1	31.28	1515	2460
Lead	3348	0.63	31.28	4556	-3860
Manganese	191.6	1.3	31.28	336.3	-463
Selenium	18.04	1.3	31.28	1.121	54.1
Silver	9.266	1.3	12.51	1.519	61.9
Zinc	5005	6.3	31.28	3776	3930

Sample ID: 12110922-006AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: ICPMS-2_121203A
Client ID: LM-SB23-(6-12)-112	Batch ID: 66385	TestNo: SW6020		Analysis Date: 12/3/2012	SeqNo: 2298875
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Arsenic	27.08	1.2	31.18	8.284	60.3
Barium	976.5	1.2	31.18	1053	-244
Cadmium	34.34	0.62	31.18	14.39	64
Chromium	37.56	1.2	31.18	58.13	-66
Copper	1205	3.1	31.18	1515	-997
Lead	3544	0.62	31.18	4556	-3250
Manganese	219.7	1.2	31.18	336.3	-374
Selenium	20.3	1.2	31.18	1.121	61.5
Silver	9.428	1.2	12.47	1.519	63.4
Zinc	3360	6.2	31.18	3776	-1330

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: 12/5/2012 10:00:00

Prep End Date: 12/5/2012 1:10:00 P

Prep Factor Units:

mL / g

Prep Batch 66455 Prep Code: M_S_PREP Technician: MDDT

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS3 12/4/12			1	0	0	50	50.000	12/4/2012	12/4/2012
ILCSS3 12/4/12			1	0	0	50	50.000	12/4/2012	12/4/2012
12110922-006A	Soil	0.754		0	0	50	66.313	12/4/2012	12/4/2012
12110922-006AMS	Soil	0.751		0	0	50	66.578	12/4/2012	12/4/2012
12110922-006AMSD	Soil	0.752		0	0	50	66.489	12/4/2012	12/4/2012
12111006-002B	Soil	1.039		0	0	50	48.123	12/4/2012	12/4/2012
12111006-002BMS	Soil	1.045		0	0	50	47.847	12/4/2012	12/4/2012
12111006-002BMSD	Soil	1.04		0	0	50	48.077	12/4/2012	12/4/2012
12111004-001B	Soil	0.914		0	0	50	54.705	12/4/2012	12/4/2012
12111004-002B	Soil	0.997		0	0	50	50.150	12/4/2012	12/4/2012
12111004-002BMS	Soil	0.984		0	0	50	50.813	12/4/2012	12/4/2012
12111004-002BMSD	Soil	0.997		0	0	50	50.150	12/4/2012	12/4/2012
12111004-012B	Soil	0.958		0	0	50	52.192	12/4/2012	12/4/2012
12111004-013B	Soil	1.143		0	0	50	43.745	12/4/2012	12/4/2012
12111004-019B	Soil	0.964		0	0	50	51.867	12/4/2012	12/4/2012
12111004-021B	Soil	0.949		0	0	50	52.687	12/4/2012	12/4/2012
12111004-025B	Soil	1.037		0	0	50	48.216	12/4/2012	12/4/2012
12111004-027B	Soil	0.912		0	0	50	54.825	12/4/2012	12/4/2012
12111004-030B	Soil	0.944		0	0	50	52.966	12/4/2012	12/4/2012
12111004-031B	Soil	0.978		0	0	50	51.125	12/4/2012	12/4/2012
12111004-036B	Soil	0.909		0	0	50	55.006	12/4/2012	12/4/2012
12111004-038B	Soil	1.102		0	0	50	45.372	12/4/2012	12/4/2012
12120021-001A	Soil	0.904		0	0	50	55.310	12/4/2012	12/4/2012
12120021-004A	Soil	1.001		0	0	50	49.950	12/4/2012	12/4/2012
12111004-042B	Soil	0.935		0	0	50	53.476	12/5/2012	12/5/2012

STAT Analysis Corporation**PREP BATCH REPORT**

Prep Start Date: 12/5/2012 10:00:00

Prep End Date: 12/5/2012 1:10:00 P

Prep Factor Units:

mL / g

Prep Batch **66455** Prep Code: **M_S_PREP** Technician: **MDDT**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
12111004-043B	Soil		0.957	0	0	50	52.247	12/5/2012	12/5/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66455

Sample ID: IMBS3 12/4/12	SampType: MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 12/4/2012	Run ID: ICPMS_121204B						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020		Analysis Date: 12/4/2012	SeqNo: 2300057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									
Barium	0.157	0.50									J
Cadmium	ND	0.25									
Chromium	ND	0.50									
Copper	ND	1.2									
Lead	0.12	0.25									J
Manganese	ND	0.50									
Selenium	ND	0.50									
Silver	0.04	0.50									J
Zinc	ND	2.5									
Sample ID: ILCSS3 12/4/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 12/4/2012	Run ID: ICPMS_121204B						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020		Analysis Date: 12/4/2012	SeqNo: 2300060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	26.62	0.50	25	0	106	80	120	0	0		
Barium	27.72	0.50	25	0.157	110	80	120	0	0		
Cadmium	26.24	0.25	25	0	105	80	120	0	0		
Chromium	28.78	0.50	25	0	115	80	120	0	0		
Copper	28.42	1.2	25	0	114	80	120	0	0		
Lead	26.66	0.25	25	0.12	106	80	120	0	0		
Manganese	28.95	0.50	25	0	116	80	120	0	0		
Selenium	25.4	0.50	25	0	102	80	120	0	0		
Silver	10.49	0.50	10	0.04	104	80	120	0	0		
Zinc	25.4	2.5	25	0	102	80	120	0	0		
Sample ID: 12111004-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020		Analysis Date: 12/5/2012	SeqNo: 2300465						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	32.17	1.1	26.7	2.84	110	75	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66455

Sample ID: 12111004-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020		Analysis Date: 12/5/2012	SeqNo: 2300465						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	34.62	1.1	26.7	3.76	116	75	125	0	0		
Cadmium	29.5	0.53	26.7	0	110	75	125	0	0		
Chromium	34.69	1.1	26.7	3.017	119	75	125	0	0		
Copper	32.33	2.7	26.7	2.106	113	75	125	0	0		
Lead	33.38	0.53	26.7	3.364	112	75	125	0	0		
Manganese	163.8	1.1	26.7	136.3	103	75	125	0	0		
Selenium	29.39	1.1	26.7	0	110	75	125	0	0		
Silver	11.48	1.1	10.68	0.04533	107	75	125	0	0		
Zinc	41.18	5.3	26.7	10.81	114	75	125	0	0		
Sample ID: 12111006-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020		Analysis Date: 12/5/2012	SeqNo: 2300468						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	33.98	1.2	29.25	3.55	104	75	125	0	0		
Barium	49.27	1.2	29.25	16.91	111	75	125	0	0		
Cadmium	29.54	0.58	29.25	0.1247	101	75	125	0	0		
Chromium	39.65	1.2	29.25	8.625	106	75	125	0	0		
Lead	40.55	0.58	29.25	8.372	110	75	125	0	0		
Selenium	32.06	1.2	29.25	0.7583	107	75	125	0	0		
Silver	11.31	1.2	11.7	0.07118	96	75	125	0	0		
Sample ID: 12110922-006AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: LM-SB23-(6-12)-112	Batch ID: 66455	TestNo: SW6020		Analysis Date: 12/5/2012	SeqNo: 2300473						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.83	1.5	37.57	12.01	103	75	125	0	0		
Barium	1544	1.5	37.57	1234	825	75	125	0	0		S
Cadmium	57.12	0.75	37.57	17.5	105	75	125	0	0		
Chromium	76.12	1.5	37.57	28.77	126	75	125	0	0		S
Lead	6242	0.75	37.57	5685	1480	75	125	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66455

Sample ID: 12110922-006AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: LM-SB23-(6-12)-112	Batch ID: 66455	TestNo: SW6020	Analysis Date: 12/5/2012		SeqNo: 2300473						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	292.2	1.5	37.57	293.4	-3.08	75	125	0	0		S
Selenium	41.01	1.5	37.57	2.093	104	75	125	0	0		
Silver	17.14	1.5	15.03	1.577	104	75	125	0	0		
Sample ID: 12111004-002BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020	Analysis Date: 12/5/2012		SeqNo: 2300466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	32.28	1.1	26.36	2.84	112	75	125	32.17	0.334	20	
Barium	34.57	1.1	26.36	3.76	117	75	125	34.62	0.147	20	
Cadmium	29.45	0.53	26.36	0	112	75	125	29.5	0.178	20	
Chromium	34.82	1.1	26.36	3.017	121	75	125	34.69	0.367	20	
Copper	32.02	2.6	26.36	2.106	113	75	125	32.33	0.983	20	
Lead	33.1	0.53	26.36	3.364	113	75	125	33.38	0.818	20	
Manganese	185.4	1.1	26.36	136.3	187	75	125	163.8	12.4	20	S
Selenium	29.57	1.1	26.36	0	112	75	125	29.39	0.614	20	
Silver	11.42	1.1	10.54	0.04533	108	75	125	11.48	0.478	20	
Zinc	39.95	5.3	26.36	10.81	111	75	125	41.18	3.04	20	
Sample ID: 12111006-002BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: ZZZZZ	Batch ID: 66455	TestNo: SW6020	Analysis Date: 12/5/2012		SeqNo: 2300471						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	35.68	1.2	29.39	3.55	109	75	125	33.98	4.87	20	
Barium	51.5	1.2	29.39	16.91	118	75	125	49.27	4.41	20	
Cadmium	31.11	0.59	29.39	0.1247	105	75	125	29.54	5.18	20	
Chromium	41.24	1.2	29.39	8.625	111	75	125	39.65	3.93	20	
Lead	44.13	0.59	29.39	8.372	122	75	125	40.55	8.46	20	
Selenium	32.64	1.2	29.39	0.7583	108	75	125	32.06	1.78	20	
Silver	11.92	1.2	11.75	0.07118	101	75	125	11.31	5.28	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66455

Sample ID: 12110922-006AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/4/2012	Run ID: ICPMS_121205A						
Client ID: LM-SB23-(6-12)-112	Batch ID: 66455	TestNo: SW6020	Analysis Date: 12/5/2012		SeqNo: 2300474						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.73	1.5	37.52	12.01	103	75	125	50.83	0.192	20	
Barium	1308	1.5	37.52	1234	197	75	125	1544	16.6	20	S
Cadmium	56.47	0.75	37.52	17.5	104	75	125	57.12	1.15	20	
Chromium	73.52	1.5	37.52	28.77	119	75	125	76.12	3.48	20	
Lead	6391	0.75	37.52	5685	1880	75	125	6242	2.35	20	S
Manganese	356.8	1.5	37.52	293.4	169	75	125	292.2	19.9	20	S
Selenium	38.62	1.5	37.52	2.093	97.3	75	125	41.01	6.02	20	
Silver	17	1.5	15.01	1.577	103	75	125	17.14	0.837	20	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: 11/29/2012 1:30:00

Prep End Date: 11/29/2012 3:50:00

Prep Factor Units:

mL / mL

Prep Batch 66370 Prep Code: M_W_PREP Technician: RW

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBW1 11/29/12			50	0	0	50	1.000	11/29/2012	11/29/2012
ILCSW1 11/29/12			50	0	0	50	1.000	11/29/2012	11/29/2012
IMBTA1 11/28/12			50	0	0	50	1.000	11/29/2012	11/29/2012
12110802-023A	Solid		50	0	0	50	1.000	11/29/2012	11/29/2012
12110890-001A	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110921-004A	Liquid		50	0	0	50	1.000	11/29/2012	11/29/2012
12110921-006A	Sludge		50	0	0	50	1.000	11/29/2012	11/29/2012
12110921-007A	Sludge		50	0	0	50	1.000	11/29/2012	11/29/2012
12110922-020B	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110922-021B	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110922-022B	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110929-001A	Solid		50	0	0	50	1.000	11/29/2012	11/29/2012
12110941-001A	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110941-001AMS	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110941-001AMSD	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110946-001A	Liquid		50	0	0	50	1.000	11/29/2012	11/29/2012
IMBTB 11/28/12			50	0	0	50	1.000	11/29/2012	11/29/2012
12110920-001B	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110920-001BMS	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
IMBSPLP 11/28/12			50	0	0	50	1.000	11/29/2012	11/29/2012
12110556-008B	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012
12110556-008BMS	Soil		50	0	0	50	1.000	11/29/2012	11/29/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66370

Sample ID: IMBTA1 11/28/12	SampType: MBLK	TestCode: M_ICPMS_T+	Units: mg/L	Prep Date: 11/29/2012	Run ID: ICPMS_121129A						
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW1311/6020		Analysis Date: 11/29/2012	SeqNo: 2297254						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.00465	0.010									J
Barium	0.00569	0.50									J
Cadmium	0.00127	0.0050									J
Chromium	0.00679	0.010									J
Copper	0.02849	0.10									J
Lead	0.0028	0.0050									J
Manganese	0.00067	0.010									J
Selenium	0.00881	0.010									J
Silver	0.00163	0.010									J
Zinc	ND	0.50									
Sample ID: 12110941-001AMS	SampType: MS	TestCode: M_ICPMS_T+	Units: mg/L	Prep Date: 11/29/2012	Run ID: ICPMS_121129A						
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW1311/6020		Analysis Date: 11/29/2012	SeqNo: 2297265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5191	0.010	0.5	0	104	75	125	0	0		
Barium	1.255	0.50	0.5	0.7213	107	75	125	0	0		
Cadmium	0.5014	0.0050	0.5	0.00269	99.7	75	125	0	0		
Chromium	0.4962	0.010	0.5	0.00703	97.8	75	125	0	0		
Copper	0.5114	0.10	0.5	0.02899	96.5	75	125	0	0		
Lead	0.5256	0.0050	0.5	0.00385	104	75	125	0	0		
Manganese	1.722	0.010	0.5	1.244	95.6	75	125	0	0		
Selenium	0.494	0.010	0.5	0	98.8	75	125	0	0		
Silver	0.1966	0.010	0.2	0.00146	97.6	75	125	0	0		
Zinc	0.4874	0.50	0.5	0.03892	89.7	75	125	0	0		J
Sample ID: 12110941-001AMSD	SampType: MSD	TestCode: M_ICPMS_T+	Units: mg/L	Prep Date: 11/29/2012	Run ID: ICPMS_121129A						
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW1311/6020		Analysis Date: 11/29/2012	SeqNo: 2297266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5302	0.010	0.5	0	106	75	125	0.5191	2.12	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66370

Sample ID: 12110941-001AMSD	SampType: MSD	TestCode: M_ICPMS_T+	Units: mg/L	Prep Date: 11/29/2012	Run ID: ICPMS_121129A						
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW1311/6020		Analysis Date: 11/29/2012	SeqNo: 2297266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.266	0.50	0.5	0.7213	109	75	125	1.255	0.873	20	
Cadmium	0.5127	0.0050	0.5	0.00269	102	75	125	0.5014	2.23	20	
Chromium	0.5106	0.010	0.5	0.00703	101	75	125	0.4962	2.86	20	
Copper	0.5326	0.10	0.5	0.02899	101	75	125	0.5114	4.06	20	
Lead	0.5365	0.0050	0.5	0.00385	107	75	125	0.5256	2.05	20	
Manganese	1.765	0.010	0.5	1.244	104	75	125	1.722	2.47	20	
Selenium	0.5057	0.010	0.5	0	101	75	125	0.494	2.34	20	
Silver	0.1986	0.010	0.2	0.00146	98.6	75	125	0.1966	1.01	20	
Zinc	0.5009	0.50	0.5	0.03892	92.4	75	125	0.4874	2.73	20	
Sample ID: IMBW1 11/29/12	SampType: MBLK	TestCode: M_ICPMS_W	Units: mg/L	Prep Date: 11/29/2012	Run ID: ICPMS_121129A						
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW6020		Analysis Date: 11/29/2012	SeqNo: 2297252						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0040									
Barium	ND	0.0040									
Cadmium	ND	0.0020									
Chromium	0.00208	0.0040									J
Copper	ND	0.010									
Lead	0.00064	0.0020									J
Manganese	ND	0.0040									
Selenium	ND	0.0040									
Silver	0.00062	0.0040									J
Zinc	ND	0.020									
Sample ID: ILCSW1 11/29/12	SampType: LCS	TestCode: M_ICPMS_W	Units: mg/L	Prep Date: 11/29/2012	Run ID: ICPMS_121129A						
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW6020		Analysis Date: 11/29/2012	SeqNo: 2297253						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5221	0.0040	0.5	0	104	80	120	0	0		
Barium	0.5287	0.0040	0.5	0	106	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66370

Sample ID: ILCSW1 11/29/12	SampType: LCS	TestCode: M_ICPMS_W	Units: mg/L	Prep Date: 11/29/2012			Run ID: ICPMS_121129A				
Client ID: ZZZZZ	Batch ID: 66370	TestNo: SW6020		Analysis Date: 11/29/2012			SeqNo: 2297253				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.5322	0.0020	0.5	0	106	80	120	0	0	0	
Chromium	0.5344	0.0040	0.5	0.00208	106	80	120	0	0	0	
Copper	0.5451	0.010	0.5	0	109	80	120	0	0	0	
Lead	0.5237	0.0020	0.5	0.00064	105	80	120	0	0	0	
Manganese	0.524	0.0040	0.5	0	105	80	120	0	0	0	
Selenium	0.5172	0.0040	0.5	0	103	80	120	0	0	0	
Silver	0.2105	0.0040	0.2	0.00062	105	80	120	0	0	0	
Zinc	0.499	0.020	0.5	0	99.8	80	120	0	0	0	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: 11/30/2012 6:41:00

Prep End Date: 11/30/2012 7:20:00

Prep Factor Units:

mL / g

Prep Batch 66395 Prep Code: M_HG_S_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBS2 11/30/12			0.301	0	0	30	99.668	11/30/2012	11/30/2012
HGLCSS2 11/30/12			0.302	0	0	30	99.338	11/30/2012	11/30/2012
12110964-001A	Soil		0.352	0	0	30	85.227	11/30/2012	11/30/2012
12110974-001A	Soil		0.323	0	0	30	92.879	11/30/2012	11/30/2012
12110974-002A	Soil		0.381	0	0	30	78.740	11/30/2012	11/30/2012
12110974-003A	Soil		0.33	0	0	30	90.909	11/30/2012	11/30/2012
12110974-004A	Soil		0.343	0	0	30	87.464	11/30/2012	11/30/2012
12110974-005A	Soil		0.324	0	0	30	92.593	11/30/2012	11/30/2012
12110974-006B	Soil		0.3	0	0	30	100.000	11/30/2012	11/30/2012
12110974-007A	Soil		0.308	0	0	30	97.403	11/30/2012	11/30/2012
12110922-001A	Soil		0.31	0	0	30	96.774	11/30/2012	11/30/2012
12110922-002A	Soil		0.356	0	0	30	84.270	11/30/2012	11/30/2012
12110922-003A	Soil		0.319	0	0	30	94.044	11/30/2012	11/30/2012
12110922-004A	Soil		0.305	0	0	30	98.361	11/30/2012	11/30/2012
12110922-005A	Soil		0.355	0	0	30	84.507	11/30/2012	11/30/2012
12110922-006A	Soil		0.35	0	0	30	85.714	11/30/2012	11/30/2012
12110922-007A	Soil		0.336	0	0	30	89.286	11/30/2012	11/30/2012
12110922-008A	Soil		0.349	0	0	30	85.960	11/30/2012	11/30/2012
12110922-009A	Soil		0.301	0	0	30	99.668	11/30/2012	11/30/2012
12110922-009AMS	Soil		0.307	0	0	30	97.720	11/30/2012	11/30/2012
12110922-009AMSD	Soil		0.303	0	0	30	99.010	11/30/2012	11/30/2012
12110922-010A	Soil		0.34	0	0	30	88.235	11/30/2012	11/30/2012
12110922-011A	Soil		0.328	0	0	30	91.463	11/30/2012	11/30/2012
12110922-012A	Soil		0.305	0	0	30	98.361	11/30/2012	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66395

Sample ID: HGMBS2 11/30/12	SampType: MBLK	TestCode: M_HG_SOLID	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: CETAC_121203A						
Client ID: ZZZZZ	Batch ID: 66395	TestNo: SW7471A		Analysis Date: 12/3/2012	SeqNo: 2298533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00299	0.020									J
Sample ID: HGLCSS2 11/30/12	SampType: LCS	TestCode: M_HG_SOLID	Units: mg/Kg	Prep Date: 11/30/2012	Run ID: CETAC_121203A						
Client ID: ZZZZZ	Batch ID: 66395	TestNo: SW7471A		Analysis Date: 12/3/2012	SeqNo: 2298534						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2454	0.020	0.2483	0.00299	97.6	80	120	0	0		
Sample ID: 12110922-009AMS	SampType: MS	TestCode: M_HG_SOLID	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: CETAC_121203D						
Client ID: LM-SB10-(24-36)-11	Batch ID: 66395	TestNo: SW7471A		Analysis Date: 12/3/2012	SeqNo: 2298687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	3.748	0.21	0.2595	3.632	44.7	75	125	0	0		S
Sample ID: 12110922-009AMSD	SampType: MSD	TestCode: M_HG_SOLID	Units: mg/Kg-dry	Prep Date: 11/30/2012	Run ID: CETAC_121203D						
Client ID: LM-SB10-(24-36)-11	Batch ID: 66395	TestNo: SW7471A		Analysis Date: 12/3/2012	SeqNo: 2298706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	3.503	0.21	0.263	3.632	-49.1	75	125	3.748	6.76	20	S

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: 12/3/2012 6:22:00 P

Prep End Date: 12/3/2012 7:00:00 P

Prep Factor Units:

mL / g

Prep Batch 66448 Prep Code: M_HG_S_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBS1 12/3/12			0.3	0	0	30	100.000	12/3/2012	12/3/2012
HGLCSS1 12/3/12			0.302	0	0	30	99.338	12/3/2012	12/3/2012
12111017-001B	Soil		0.323	0	0	30	92.879	12/3/2012	12/3/2012
12110922-013A	Soil		0.307	0	0	30	97.720	12/3/2012	12/3/2012
12110922-014A	Soil		0.308	0	0	30	97.403	12/3/2012	12/3/2012
12110922-015A	Soil		0.338	0	0	30	88.757	12/3/2012	12/3/2012
12110922-016A	Soil		0.366	0	0	30	81.967	12/3/2012	12/3/2012
12110922-017A	Soil		0.309	0	0	30	97.087	12/3/2012	12/3/2012
12110922-018A	Soil		0.315	0	0	30	95.238	12/3/2012	12/3/2012
12110922-019A	Soil		0.306	0	0	30	98.039	12/3/2012	12/3/2012
12110922-020B	Soil		0.341	0	0	30	87.977	12/3/2012	12/3/2012
12110922-021B	Soil		0.38	0	0	30	78.947	12/3/2012	12/3/2012
12110922-022B	Soil		0.355	0	0	30	84.507	12/3/2012	12/3/2012
12111018-001B	Soil		0.317	0	0	30	94.637	12/3/2012	12/3/2012
12111018-002B	Soil		0.329	0	0	30	91.185	12/3/2012	12/3/2012
12111018-003B	Soil		0.309	0	0	30	97.087	12/3/2012	12/3/2012
12111018-004B	Soil		0.361	0	0	30	83.102	12/3/2012	12/3/2012
12111004-001B	Soil		0.311	0	0	30	96.463	12/3/2012	12/3/2012
12111004-002B	Soil		0.351	0	0	30	85.470	12/3/2012	12/3/2012
12111004-006B	Soil		0.351	0	0	30	85.470	12/3/2012	12/3/2012
12111004-008B	Soil		0.322	0	0	30	93.168	12/3/2012	12/3/2012
12111004-012B	Soil		0.36	0	0	30	83.333	12/3/2012	12/3/2012
12111004-006BMS	Soil		0.363	0	0	30	82.645	12/3/2012	12/3/2012
12111004-006BMSD	Soil		0.356	0	0	30	84.270	12/3/2012	12/3/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66448

Sample ID: HGMBS1 12/3/12	SampType: MBLK	TestCode: M_HG_SOLID	Units: mg/Kg	Prep Date: 12/3/2012	Run ID: CETAC_121204B						
Client ID: ZZZZZ	Batch ID: 66448	TestNo: SW7471A	Analysis Date: 12/4/2012		SeqNo: 2299593						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.009	0.020							J		
Sample ID: HGLCSS1 12/3/12	SampType: LCS	TestCode: M_HG_SOLID	Units: mg/Kg	Prep Date: 12/3/2012	Run ID: CETAC_121204B						
Client ID: ZZZZZ	Batch ID: 66448	TestNo: SW7471A	Analysis Date: 12/4/2012		SeqNo: 2299594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2404	0.020	0.2483	0.009	93.2	80	120	0	0		
Sample ID: 12111004-006BMS	SampType: MS	TestCode: M_HG_SOLID	Units: mg/Kg-dry	Prep Date: 12/3/2012	Run ID: CETAC_121204D						
Client ID: ZZZZZ	Batch ID: 66448	TestNo: SW7471A	Analysis Date: 12/4/2012		SeqNo: 2300501						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2304	0.018	0.2295	0.02089	91.3	75	125	0	0		
Sample ID: 12111004-006BMSD	SampType: MSD	TestCode: M_HG_SOLID	Units: mg/Kg-dry	Prep Date: 12/3/2012	Run ID: CETAC_121204D						
Client ID: ZZZZZ	Batch ID: 66448	TestNo: SW7471A	Analysis Date: 12/4/2012		SeqNo: 2300502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2377	0.019	0.234	0.02089	92.7	75	125	0.2304	3.14	20	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

STAT Analysis Corporation**PREP BATCH REPORT**

Prep Start Date: 11/30/2012 5:15:00

Prep End Date: 11/30/2012 7:15:00

Prep Factor Units:

mL / mL

Prep Batch **66394** Prep Code: **M_HG_W_PR** Technician: **LB**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBW1 11/30/12			30	0	0	30	1.000	11/30/2012	11/30/2012
HGLCSW1 11/30/12			30	0	0	30	1.000	11/30/2012	11/30/2012
HGMBTA1 11/29/12			30	0	0	30	1.000	11/30/2012	11/30/2012
12110964-001A	Soil		30	0	0	30	1.000	11/30/2012	11/30/2012
12110964-001AMS	Soil		30	0	0	30	1.000	11/30/2012	11/30/2012
HGMBTA1 11/28/12			30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-004A	Liquid		30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-007A	Sludge		30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-007AMS	Sludge		30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-007AMSD	Sludge		30	0	0	30	1.000	11/30/2012	11/30/2012
12110922-020B	Soil		30	0	0	30	1.000	11/30/2012	11/30/2012
12110922-021B	Soil		30	0	0	30	1.000	11/30/2012	11/30/2012
12110922-022B	Soil		30	0	0	30	1.000	11/30/2012	11/30/2012
12110941-001A	Soil		30	0	0	30	1.000	11/30/2012	11/30/2012
HGMBTC 11/28/12			30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-001A	Liquid		30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-002A	Liquid		10	0	0	30	3.000	11/30/2012	11/30/2012
12110921-003A	Liquid		30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-005A	Liquid		30	0	0	30	1.000	11/30/2012	11/30/2012
12110966-006C	Water		30	0	0	30	1.000	11/30/2012	11/30/2012
12110921-006A	Sludge		30	0	0	30	1.000	11/30/2012	11/30/2012

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 66394

Sample ID: HGMFTA1 11/28/12	SampType: MBLK	TestCode: M_1311_HG	Units: mg/L	Prep Date: 11/30/2012	Run ID: CETAC_121203B
Client ID: ZZZZZ	Batch ID: 66394	TestNo: SW1311/7470		Analysis Date: 12/3/2012	SeqNo: 2298566
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	ND	0.00020			
<hr/>					
Sample ID: 12110921-007AMS	SampType: MS	TestCode: M_1311_HG	Units: mg/L	Prep Date: 11/30/2012	Run ID: CETAC_121203B
Client ID: ZZZZZ	Batch ID: 66394	TestNo: SW1311/7470		Analysis Date: 12/3/2012	SeqNo: 2298576
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.00255	0.00020	0.0025	0.00004	100
					75
					125
					0
					0
<hr/>					
Sample ID: 12110921-007AMSD	SampType: MSD	TestCode: M_1311_HG	Units: mg/L	Prep Date: 11/30/2012	Run ID: CETAC_121203B
Client ID: ZZZZZ	Batch ID: 66394	TestNo: SW1311/7470		Analysis Date: 12/3/2012	SeqNo: 2298577
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.00255	0.00020	0.0025	0.00004	100
					75
					125
					0.00255
					0
					20
<hr/>					
Sample ID: HGMBW1 11/30/12	SampType: MBLK	TestCode: M_HG_WATE	Units: mg/L	Prep Date: 11/30/2012	Run ID: CETAC_121203B
Client ID: ZZZZZ	Batch ID: 66394	TestNo: SW7470A		Analysis Date: 12/3/2012	SeqNo: 2298568
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	ND	0.00020			
<hr/>					
Sample ID: HGLCSW1 11/30/12	SampType: LCS	TestCode: M_HG_WATE	Units: mg/L	Prep Date: 11/30/2012	Run ID: CETAC_121203B
Client ID: ZZZZZ	Batch ID: 66394	TestNo: SW7470A		Analysis Date: 12/3/2012	SeqNo: 2298569
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.00236	0.00020	0.0025	0	94.4
					85
					115
					0
					0

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85282

Sample ID: 12110964-001A DUP	SampType: DUP	TestCode: PH_S	Units: pH Units	Prep Date: 11/29/2012	Run ID: PH_121129A
Client ID: ZZZZZ	Batch ID: R85282	TestNo: SW9045C		Analysis Date: 11/29/2012	SeqNo: 2297064
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
pH	8	0	0	0	0
				0	7.99
				0.125	20
				Qual	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85306

Sample ID: 12110922-012ADUP	SampType: DUP	TestCode: PH_S	Units: pH Units	Prep Date: 11/30/2012	Run ID: PH_121130A
Client ID: LM-SB01-(0-10)-112	Batch ID: R85306	TestNo: SW9045C		Analysis Date: 11/30/2012	SeqNo: 2297612
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
pH	8.46	0	0	0	0
					LowLimit HighLimit RPD Ref Val
					8.58 1.41 20
					%RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12110922
Project: Lowenthal Metals Chicago, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: R85277

Sample ID: PMMBK 11/28/12	SampType: MBLK	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128B
Client ID: ZZZZZ	Batch ID: R85277	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296923
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	ND	0.200			*
<hr/>					
Sample ID: PMLCS-S 11/28/12	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128B
Client ID: ZZZZZ	Batch ID: R85277	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296924
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	4.84	0.200	5	0	96.8
				80	120
				0	0
					*
<hr/>					
Sample ID: PMLCS-W 11/28/12	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128B
Client ID: ZZZZZ	Batch ID: R85277	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296925
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	99.82	0.200	99.8	0	100
				80	120
				0	0
					0
					*
<hr/>					
Sample ID: 12110922-019A DUP	SampType: DUP	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128B
Client ID: LM-Concrete-112712	Batch ID: R85277	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296927
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	2.58	0.200	0	0	0
				0	0
				2.68	3.80
					20
					*

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

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ANALYTICAL QC SUMMARY REPORT

BatchID: R85280

Sample ID: PMMBK3 11/28/12	SampType: MBLK	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128D
Client ID: ZZZZZ	Batch ID: R85280	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296989
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	ND	0.200			
					*
Sample ID: PMLCS-S3 11/28/12	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128D
Client ID: ZZZZZ	Batch ID: R85280	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296990
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	4.58	0.200	5	0	91.6
					80
					120
					0
					0
					*
Sample ID: PMLCS-W3 11/28/12	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128D
Client ID: ZZZZZ	Batch ID: R85280	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296991
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	99.82	0.200	99.8	0	100
					80
					120
					0
					0
					*
Sample ID: 12110936-003B DUP	SampType: DUP	TestCode: PMOIST	Units: wt%	Prep Date: 11/28/2012	Run ID: BALANCE_121128D
Client ID: ZZZZZ	Batch ID: R85280	TestNo: D2974		Analysis Date: 11/29/2012	SeqNo: 2296993
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Percent Moisture	15.75	0.200	0	0	0
					0
					16.92
					7.16
					20
					*

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	